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MARCH-APRIL 1946

46th CHRISTMAS BIRD COUNT

SECTION II AUDUBON FIELD NOTES

(Report for Christmas 1945)

Edited by Margaret Brooks Hickey

THE CONCEPT of the first Christmas Bird Count arose in the fertile mind of Dr. Frank M. Chapman in 1899. The plan involved the counting of birds during the Christmas period, and was offered as a substitute activity for people who might otherwise look for birds only over the sights of a gun. This (the 46th) is the first count that Dr. Chapman was not able to witness himself. From its humble beginning, it has grown to an enterprise that in 1945 attracted about 2300 enthusiastic persons, and no better testimony to the success of Dr. Chapman's idea could be found than in the following report of this 46th consecutive count.

Although 175 more persons participated in this year's count than in 1944, there was not a corresponding increase in the number of lists—288 reports printed this year as compared with the 282 submitted last year. This would indicate that more people are adopting the suggestion of making party rather than individual counts.

When the adding machine had checked off its last figure, it showed that approximately 3,136,000 birds had been estimated or actually counted during the period. This is 2,354,000 less than last year, and only 581,000 more than in 1943. The comparatively low 1945 figure is attributable, in part at least, to the subfreezing temperatures that prevailed over much of the country in early December, and to the ice that, during the count period, covered many fresh-water areas ordinarily reporting large concentrations of waterfowl. In 1944 more mallards and pintails were observed (over 3,710,000 individuals) than this year's grand total of 3,136,000 for all species! The Sacramento National Wildlife Refuge in California last year estimated 3,024,000 individuals; there was no explanation for the 1945 figure, which dropped to about 867,500.

The longest list of species and subspecies in this report was the 136 obtained at Los Angeles, Calif. (132 in 1944, 123 in 1943). Charleston, S. C., with its total of 131 (129 in 1944, 128 in 1943)

will not permit the Californians to sit too complacently on their laurels next year. Other lists over 100 were reported from San Diego, Calif. (120), St. Petersburg, Fla. (119), St. Francisville, La., the region where Audubon did much of his field work (110), Cape May, N. J. (107), and Monterey, Calif. (105).

A robin roost reported from Nashville, Tenn., contained an estimated 310,000 birds during late December—and the observers claim that their figures are conservative.

Flights of snowy owls usually occur in fouryear cycles in the Northeast. Since the last mass flight took place during the winter of 1941, an invasion last winter was well within the realm of possibility. The birds arrived on schedule, and a map showing their distribution on the Christmas count may be found on p. 22. The actual proportions of the flight can be gained only by amassing data for the region involved over the entire winter. On the basis of unpublished data collected by Dr. C. T. Black of the Michigan Department of Conservation, I would estimate that considerably less than ½ of 1 per cent of the snowy owls reported in that state were recorded on the Christmas count.

There was also a mass invasion of evening grosbeaks in the Northeast. The approximate extent of the flight, as it appeared in late December, may be seen from the map on p. 63. Pine grosbeaks also moved into the same area, but in much fewer numbers; as seen on the Christmas count, their spotty flight was concentrated in eastern Canada, New England, and as far south as New Jersey.

The Christmas Bird Count Club reported a total of \$161.00, which represented an average contribution of \$.07 per participant (\$.055 last year). This will again be used to help defray part of the expenses of printing this report. Although \$1.00 a year is now charged for the six issues of Audubon Field Notes, the number of subscribers is still so few, that the cost of production continues to outbalance receipts.

- 1. Salzburg, Austria (center of town to swamp north of Anthering, covering 6 miles of Salzach River valley; deciduous woodland 70%, open farmland 20%, residential district 10%).-Dec. 29; 8 a.m. to 4:30 p.m. Partly cloudy; temp. 35° to 50°; wind W shifting to E, 1-7 m.p.h.; ground bare, ponds thawing old ice. Total hours, 8 (on foot); total miles, 10 (on foot). Carrion-crow, 38; jay, 2; siskin, 138; bullfinch, 4; house sparrow, 4; yellow hammer, 2; tree-creeper, 1; nuthatch, 4; great tit, 12; blue tit, 5; coal tit, 2; crested tit, 2; marsh-tit, 14; long-tailed tit, 15; goldcrest, 7; blackbird, 2; wren, 1; dipper, 1; buzzard, 2; common heron, 2; mallard, 18; European teal, 22; little grebe, 1; black-headed gull, 229 (a steadily increasing flock, first appearing in early November and now very tame). Total, 24 species; 528 individuals.-Lt. Alfred E. Eynon (Urner Ornithological Club, N. J.).
- 2. Camp Twenty Grand, near Rouen, France (camp area, La Fontaine, Seine River, Saint Pierre de Verengville, Honouville and Bois de Melmont).-Dec. 8; 4 to 5 a.m., 7:30 to 9 a.m., 10 a.m. to noon, 1 to 5 p.m. Clear; cold; rain puddles with 1/4-in, ice surface; wind NE, moderate; ground frozen and with heavy frost. Total miles, 15 (on foot). Magpie, 15; jay, 9; carrioncrow, 35; jackdaw, 2; rook, 15; hawfinch, 6; greenfinch, 10; tree-sparrow, 55; house sparrow, 44; chaffinch, 40; brambling, 7; bullfinch, 1; yellow bunting, 11; starling, 1000 (est.); white wagtail, 18; tree-creeper, 1; nuthatch, 4; goldcrest, 12; great tit, 25; blue tit, 30; crested tit, 5; coal tit, 2; marsh-tit, 2; willow-tit, 8; long-tailed tit, 2; mistle-thrush, 8; song-thrush, 30; blackbird, 10; redbreast [=European robin], 15; wren, 3; green woodpecker, 2; great spotted woodpecker, 1; little owl, 1; tawny owl, 2; buzzard, 2; sparrow-hawk, 2; kestrel, 4; merlin, 1; grey lag-goose, 2; mallard, 75; wigeon, 10; teal, 200 (est.); tufted duck, 1; jack snipe, 2; curlew; lapwing, 1; golden plover; grey plover; ringed plover; black-headed gull, 25; moorhen, 5; ring dove, 18; partridge, 8. Total, 53 species; at least 1791 individuals. (At 4 a.m. the observer was awakened by the calling of shorebirds [those species appearing on the above list without individual totals], which seemed to be in almost continuous flight for a full hour; these species were identified by sound and prompted another census run that was not anticipated. Starlings behaved as usual in their evening flight, as near every city of any size.) - Sgt. Edward J. Reimann.
- 3. Camp Philadelphia Region, Mourmelon, France (open country with scattered pines, pine groves, farmland, and creek valley, a tributary of the Aisne River).—Dec. 1; 9 a.m. to 4 p.m. Fair in a.m., foggy in p.m.; light wind, E. Total miles, 15 (on foot). Carrion-crow, 30; rook, 65; jackdaw, 7; magpie, 6; starling, 30; greenfinch, 9; goldfinch, 7; linnet, 35; chaffinch, 45; brambling, 175; house sparrow, 3; tree-sparrow, 11;

corn-bunting, 2; yellow bunting, 16; skylark, 3; meadow-pipit, 1; grey wagtail, 1; tree-creeper, 6; nuthatch, 2; great tit, 45; blue tit, 55; crested tit, 4; marsh-tit, 10; long-tailed tit, 16; goldcrest, 20; fieldfare, 235; mistle-thrush, 8; redwing, 75; blackbird, 12; redbreast [=European robin], 2; wren, 8; kingfisher, 2; middle spotted woodpecker, 1; kestrel, 2; buzzard, 1; sparrow hawk, 1; mallard, 4; little grebe, 2; wood pigeon, 18. Total, 39 species; 975 individuals.—Sgt. Edward J. Reimann.

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- 4. Myitkyina, Burma (about 2 miles along banks of Irrawaddy River, 4 miles through teakwood forests, open fields, and light woods) .-Dec. 25. Clear; cool; slight breeze. House-crow. 155; Indian jungle-crow, 210; tree-pie, 2; redvented bulbul, 7; magpie-robin, 1; shama, 1; wood shrike, 7; hill-mynah, 39; gray-headed mynah, 42; common mynah, 25; jungle mynah, 48; pied mynah, 5; white-backed munia, 7; English sparrow, 61; common swallow, 155; white wagtail, 54, small skylark, 7; purple sunbird, 1; crimson-breasted barbet,2; roller, 10; green bee-eater, 6; blue-tailed bee-eater, 4; pied kingfisher, 5; white-breasted kingfisher, 3; spotted owlet, 1; king vulture, 3; white-backed vulture, 4; kestrel, 1; common Pariah kite, 8; shikra, 2; rock dove, 2; ring dove, 3; river tern, 55; little stint, 1; little cormorant, 2; cattle egret, 11. Total, 36 species; 950 individuals. Identified with the help of binoculars and a copy of "The Book of Indian Birds," published by the Bombay Natural History Society.-Sgt. Charles L. Gardner, Jr., Texarkana, Ark.
- 5. Calcutta, India (Hastings Mill to Rishra station [E.I.R.R.] and area within 11/2 miles' radius of station; small stretch of rice paddies but chiefly dry fields and pasture with scattered clumps of bamboo, occasional palms, and small groves of broad-leaved evergreens with negligible undergrowth; occasional small bathing "tanks" or ponds; moderately populated).—Dec. 2; 9 a.m. to 3 p.m. Clear; temp. 75° to 82°; slight wind. Total miles, 8 (on foot). Junglecrow, 4; Indian house-crow, 300 (est.); Indian tree-pie, 17; jungle babbler, 19; red-vented bulbul, 46; red-whiskered bulbul, 1; magpierobin, 2; red-breasted flycatcher, 5; blacknaped flycatcher, 1; brown shrike, 4; black drongo, 32; gray drongo, 1; tailor bird, 7; crowned willow-warbler, 1; Indian wren-warbler, 1; black-headed oriole, 12; gray-headed mynah, 2; common mynah, 320; pied mynah, 23; spotted munia, 13; house sparrow, 180 (est.); common swallow, 83; Indian white wagtail, 5; gray wagtail, 2; yellow wagtail, 3; purple sunbird, 4; purple-rumped sunbird, 5; golden-backed woodpecker, 5; crimson-breasted barbet, 2; brain-fever bird, 1; koel, 6; coucal, 1; rose-ringed parakeet, 4; Indian roller, 2; green bee-eater, 20; pied kingfisher, 2; white-breasted kingfisher, 3; house-swift, 2; palm swift, 38; king vulture, 1; white-backed vulture, 40; Brahminy kite, 4;

common Pariah kite and black-eared kite, 400 (est.); shikra, 2; rock dove, 70; spotted dove, 18; white-breasted waterhen, 1; common sandpiper, 2; wood sandpiper, 1; large egret, 1; little egret, 3; cattle egret, 66; Indian pond heron, 10. Total, 53 species; about 1798 individuals. (Royal Botanic Gardens, Nov. 28: gray tit, 4; orangeheaded ground-thrush, 1; hill myna, 5; tree pipit, 25; rufous-fronted pied woodpecker, 1; bluethroated barbet, 1; common green barbet, 6; Alexandrine parakeet, 3; Indian black-headed gull, 56 [on Hooghly river]. Zoological Gardens, Dec. 4: purple moorhen, 14; shag, 45; night heron [black-crowned], 55; lesser whistling teal, 1200 [est.]; whistling teal, 2.)—Capt. Ben B. Coffey, Jr. (member, Tennessee Ornithological Society).

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6. Karachi, India (Malir [Replacement Depot]; West Wharf and marsh at Keamari Road; semidesert with scrub thorn and occasional sparse grass, half occupied by depot 75%, shore of salt-water estuary 25%).-Dec. 25; 8:30 a.m. to 6:30 p.m. Clear; temp. 55° to 80°; wind W, fresh. Respectively 9 and 4 miles on foot with 13-mile truck ride between. House-crow, 310; common babbler, 127; white-cheeked bulbul, 132; pied wheatear, 28; desert wheatear, 1; Indian robin, 1; grey shrike, 15; bay-backed shrike, 1; black drongo, 3; rufous-fronted wren-warbler, 38; lesser whitethroat, 6; unidentified red-tailed warbler, 2; rosy pastor, 21; common mynah, 339; white-throated munia, 30; English sparrow, 80; white wagtail, 146 (mostly in flights at dusk); unidentified unstreaked pipit, 6; red-winged bush-lark, 5; crested lark, 30; purple sunbird, 17; Indian roller, 1; green bee-eater, 5; common kingfisher, 4; house-swift, 25; osprey, 1; griffon vulture, 11; lammergeyer, 2; white scavenger vulture, 40; tawny eagle, 4; kestrel, 1; Pariah and black-eared kites, 161; long-legged buzzard, 1; rock dove, 75; little brown dove, 3; ring dove, 2; common sand-grouse, 7; grey partridge, 13; lesser black-backed gull [=eastern herring gull], 108; black-headed gull, 370; Indian brownheaded gull, 16; Caspian tern, 4; gull-billed tern, 2; black-bellied plover, 18; oyster-catcher, 5; little ringed plover, 4; curlew, 9; common sandpiper, 19; redshank, 38; little stint, 9; grey heron, 1; large egret, 2; reef heron, 55; black-crowned night heron, 1. Total, 54 species; 2355 individuals. Short sailboat ride would have recorded crested, lesser crested, Cabot's, and Indian river terns, Aden gull, probably herring and yellow-legged gulls, and sanderlings.-Capt. Ben B. Coffey, Jr. (member, Tennessee Ornithological Society).

7. Oahu, T. H. (residential areas in Honolulu, Alewa Heights, Kapalama Heights, Aiea Heights Ridge, Tantalus trail, Moanalua pond, Kalihi Flats, Kaelepulu pond, Kuupu pond; ponds 24%, tidal flats 2%, koa-lehua forest 14%, kukuiguava forest 28%, residential areas 32%).—Dec. 23. Partly overcast; temp. 68° to 76°; wind NW, 8-12 m.p.h. Thirteen observers in 3 parties. Total

hours, 121/2 (on foot); total miles, 1271/2 (141/2) on foot, 113 by car). Black-crowned night heron, 8; pintail, 42; mallard, 2; shoveller, 2; ruddy duck, 2 (seen at 50 yards through 8x binoculars; chunky build, stubby tail, white cheek patch, black crown of male noted-G.P.); gallinule, 18; coot, 231; Pacific golden plover, 311; ruddy turnstone, 238; wandering tattler, 10; sanderling, 16; Hawaiian stilt, 204; ring-billed gull, 1; pheasant (unidentified), 1; Chinese dove, 29; barred dove, 81; Japanese tit, 1; English sparrow, 104; rice bird, 40; Kentucky cardinal, 43; Brazilian cardinal, 5; house finch, 3; Chinese thrush, 4; Japanese hill robin, 82; mynah, 129; mockingbird, 2; white-eye, 122; English skylark, 3; elepaio, 19; apapane, 15; amakihi, 36. Total, 31 species: 1804 individuals.—Ralph Andrews, Francis and Mary Evans, Priscilla Griffey, Grenville Hatch, Charlotta Hoskins, Evelyne Johnson, Bernice M. Kuhns, Gordon Pearsall, Hazel Peppin, Rus Peterson, Manning Richards, Robert J. Watson (members Honolulu Audubon Society).

8. Blenheim (Kent Co.), Ont. (Erieau, Provincial Park; farmland 65%, water 20%, woods 12%, marsh 2%, town 1%).-Dec. 27. Partly cloudy; no wind; visibility good until late p.m.; temp. 28° at 7 a.m., 32° at 1 p.m.; 1-3-in, snow in open, some drifting along fence rows and edges of woods; harbor at Erieau open. Great blue heron, 1; greater scaup, 5; Am. golden-eye, 81; buffle-head, 6; Am. merganser, 12; redbreasted merganser, 15; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; roughlegged hawk, 11; bald eagle, 1; marsh hawk, 2; sparrow hawk, 1; ring-necked pheasant, 1; herring gull, 3; rock dove, 1; mourning dove, 7; screech owl, 4; great horned owl, 1; long-eared owl, 6; hairy woodpecker, 1; downy woodpecker, 5; blue jay, 10; crow, 50; black-capped chickadee, 13; white-breasted nuthatch, 2; robin, 5; cedar waxwing, 25; starling, 107; English sparrow, 200; rusty blackbird, 2 (white eyes seen-G.M.S.); cardinal, 2; slate-colored junco, 15; Cassiar junco, 1 (collected-G.M.S.) [no further details furnished-Ed.]; tree sparrow, 147; song sparrow, 4. Total, 36 species and subspecies; about 752 individuals.-Melba Bates, L. J. Bohn, F. Jordan, G. McGarvin, G. M. Stirrett (Kent Nature Club).

9. Chatham (Kent Co.), Ont. (Chatham, Paincourt, Bradley Marshes; farmland 80%, water 10%, woods 6%, marshes 2%, towns 2%).—Dec. 27. Partly cloudy; no wind; visibility good until late p.m.; temp. 28° at 7 a.m., 32° at 1 p.m.; 1-3-in. snow in open, some drifting along fence rows and edges of woods. Nine observers. Mallard, 16; black duck, 177; red-tailed hawk, 3; red-shouldered hawk, 1; rough-legged hawk, 8; marsh hawk, 2; sparrow hawk, 1; bob-white, 5; rock dove, 6; screech owl, 3; great horned owl, 1; short-eared owl, 1; yellow-shafted flicker, 5; hairy woodpecker, 3; downy woodpecker, 7;

horned lark, 2; blue jay, 8; crow, 718; black-capped chickadee, 15; white-breasted nuthatch, 1; brown creeper, 1; golden-crowned kinglet, 3; starling, 100; English sparrow, 225; cowbird, 80; cardinal, 11; goldfinch, 3; slate-colored junco, 65; tree sparrow, 240; song sparrow, 6; Lapland longspur, 150; snow bunting, 10. Total, 32 species; 1877 individuals.—D. A. Arnott, L. J. Bohn, J. A. Dunlop, Harold English, John Keil, Metro Sass, A. A. Wood, H. B. Wressell, D. H. Young (Kent Nature Club).

10. Cobourg, Ont. (Pratt's Pond northeast to Baltimore; open farmland 55%, deciduous farm woodlots 10%, cedar woods 30%, cattail marsh 5%).—Dec. 23; 9 a.m. to 5 p.m. Clear; temp. 10°; wind NW, 25 m.p.h.; ground covered with 3-4-in. snow; pond completely frozen, creek partly so. Total hours, 8 (on foot); total miles, 8 (on foot). Ruffed grouse, 6; herring gull, 7; great horned owl, 2; hairy woodpecker, 3; downy woodpecker, 2; crow, 3; black-capped chickadee, 12; brown creeper, 1; starling, 30; pine grosbeak, 3; pine siskin, 377; goldfinch, 12; tree sparrow, 6; snow bunting, 7. Total, 14 species; 471 individuals.—Alec Lucas.

11. Hamilton, Ont. (Ancaster, Dundas, Hamilton and harbor, Burlington Beach, Bronte, Aldershot).-Dec. 30; 9 a.m. to 5 p.m. Continuous rain; temp. 40° F.; wind S, 10 m.p.h.; 1-2-in. old snow; harbor frozen, lake open. Twentytwo observers in 10 parties and at 4 separate feeding stations, Total hours, 46; total miles, 96 (81 on foot, 15 by car). Horned grebe, 1; black duck, 2; Am. golden-eye, 59; buffle-head, 2; old-squaw, 1; Am. merganser, 350; red-breasted merganser, 3; red-tailed hawk, 3; rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 4; ruffed grouse, 4; pheasant, 3; blackbacked gull, 64; herring gull, 1400 (est.); screech owl, 1; horned owl, 5; snowy owl, 2; long-eared owl, 1; kingfisher, 1; hairy woodpecker, 13; downy woodpecker, 23; blue jay, 53; crow, 3; black-capped chickadee, 178; white-breasted nut-hatch, 13; brown creeper, 2; golden-crowned kinglet, 2; cedar waxwing, 3; starling, 358; English sparrow, 796; cardinal, 35; goldfinch, 6; slate-colored junco, 87; tree sparrow, 69; song sparrow, 4; snow bunting, 1. Total, 37 species; about 3554 individuals. (Seen recently: greater scaup, 6; goshawk, 1; bald eagle, 1; Hungarian partridge, 1; glaucous gull, 2; red-breasted nuthatch, 2; evening grosbeak, 55; pine grosbeak, 8; siskin, 3.)-Ken. Cox, John A. Crosby, Esther Elstone, Bob Finlayson, Ian Halladay, J. E. Magee, E. Malcolm, Jack Martin, R. Mills, Doug. McCallum, G. O. McMillan, G. Nelson, George W. North, Mrs. H. C. Nunn, B. Raynsford, Bob Sargeant, L. Stewart, Mrs. M. R. and Patsy Waters, M. Watson, J. H. Williams, Laurel Williams (members Hamilton Nature Club).

12. Kitchener-Waterloo, Ont. (prescribed territory handled this year in only 2 key sectors:

south through Centreville and Parkway to Grand River at Doon, Blair, and Preston (radial limit); north through Breithaupt Park to Bridgeport vicinity, thence down river past Spring Valley Sewage Plant to nearby rightangle turn in river and back across hilly fields via Springwood Park; mixed woodland 25%, swampy or hilly brush 25%, river margin 25%, marshy pond and creek 12%, open fields 8%, urban 5%).-Dec. 27; 7 a.m. to 4:30 p.m. Mostly clear to overcast in p.m. with light snowfall; wind NW to W, 12-18 m.p.h.; temp. 22° to 29° to 25°; 3-4-in. snow, freshly crusted; river, Bridgeport Dam, etc., mostly frozen. Four observers in 2 parties. Total hours, 13; total miles, 28 (11 on foot). Mallard, 30; black duck, 400; golden-eye, 240; Am. merganser, 45; Cooper's hawk, 1; sparrow hawk, 1; ruffed grouse, 4; pheasant, 5; herring gull, 30; horned owl, 1; hairy woodpecker, 2; downy woodpecker, 3; horned lark, 1; blue jay, 6; black-capped chickadee, 45; white-breasted nuthatch, 5; brown creeper, 4; golden-crowned kinglet, 2; starling, 30; English sparrow, 200; cardinal, 14; goldfinch, 122; slate-colored junco, 5; tree sparrow, 11; snow bunting, 30+. Total, 25 species; 1237 individuals (partly est.). (Seen near Galt, somewhat south of area; bald eagle, 2 imm.; sparrow hawk, 1-W.B., R.B.)-W. Bergey, R. Bowman, G. W. Knechtel, K. Moon.

13. London, Ont. (valley of Thames River from London to Delaware; Redman's swamp; coves; pasture 5%, deciduous woodland 20%, swamp 20%; mixed wooded river bank 55%).-Dec. 29; 8 a.m. to 4:30 p.m. Overcast; visibility poor; wind 5 m.p.h., SW; 4-in. crusted snow on ground; temp. 28° at 8 a.m.; river mostly frozen with occasional open stretches. Thirty-one observers in 14 parties, mostly afield in the morning. Total party hours, 60 (all on foot); total party miles, 40 (all on foot). Great blue heron, 1; Canada goose, 15; mallard, 3; black duck, 54; golden-eye, 242; Am. merganser, 249; redbreasted merganser, 2; hawk (unidentified), 1; Cooper's hawk, 1; red-tailed hawk, 4; bald eagle, 2; ring-necked pheasant, 6; Wilson's snipe, 1; herring gull, 11; mourning dove, 5; screech owl, 2; great horned owl, 2; snowy owl, 1; long-eared owl, 2; short-eared owl, 2; belted kingfisher, 5; hairy woodpecker, 9; downy woodpecker, 43; Arctic three-toed woodpecker, 1; blue jay, 73; crow, 18; black-capped chickadee, 232; whitebreasted nuthatch, 35; brown creeper, 6; robin, 1; golden-crowned kinglet, 5; cedar waxwing, 15; starling, 104; English sparrow, 115; cardinal, 110; goldfinch, 74; slate-colored junco, 160; tree sparrow, 216; song sparrow, 8. Total, 38 species; 1836 individuals. (Seen in area Dec. 14: pileated woodpecker; Dec. 15: white-crowned sparrow; Dec. 21: evening grosbeak; Dec. 27: white pelican [Port Stanley], very tame and present for over 2 weeks [an escape?—Ed.].)—Rae Brown, Mrs. R. Brown, Dr. G. Cummings, Mrs. G. Cummings, J. F. Calvert, Mrs. J. F. Calvert,

Harold Calvert, Eli Davis, Kay Fetherston, Frank Girling, Harry Girling, W. G. Girling, Mrs. W. G. Girling, Ted Garside, Mary Harvey, George Harvey, Keith Horton, Louis Harpur, Gladys Holdom, J. C. Higgins, Mrs. J. C. Higgins, Alan Loughrey, James Leach, Hugh Mc-Mahon, Mary Marshall, Ted Roberts, Keith Reynolds, Mrs. K. Reynolds, M. Stewart, R. Standfield, D. Sutton (McIlwraith Ornithological Club).

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14. Ottawa, Ont. (radially about city).-Dec. 23: dawn to dusk. Clear; 6-12-in. crusted snow; wind N to NW, 10-25 m.p.h.; temp. -2° to 12° F.: open water near rapids. Sixteen observers in 7 parties. Total party hours, 33 (26 on foot, 7 by car). Black duck, 1; Am. golden-eye, 120; Am. merganser, 3; ruffed grouse, 4; ring-necked pheasant, 24; rock dove, 126; hawk owl, 1; barred owl, 1; hairy woodpecker, 3; downy woodpecker, 6; blue jay, 2; crow, 1; blackcapped chickadee, 86; white-breasted nuthatch, 2; brown creeper, 2; cedar waxwing, 25; starling, 847; English sparrow, 931; cardinal, 1; evening grosbeak, 80; redpoll, 12; pine siskin, 42; goldfinch, 26; slate-colored junco, 4; tree sparrow, 2. Total, 25 species; 2352 individuals.-R. M. Anderson, C. H. Bennett, A. E. Bourgignon, G. Cooch, R. E. DeLury, B. A. Fauvel, R. Frith, H. Groh, G. H. Hammond, T. S. Hennessy, O. H. Hewitt, Hoyes Lloyd, A. L. Rand, V. E. F. Solman, R. Solman, Mrs. A. T. J. Watts (Ottawa Field Naturalists' Club)

15. Pakenham (Lanark Co.), Ont.-Dec. 24; 8:30 a.m. to 4:15 p.m. Clear; moderate wind in a.m.; 4 inches well-packed snow; temp. 2° to 12°. Three observers separate. Total miles, 20 (6 by car, 14 on foot). Am. golden-eye, 1; ruffed grouse, 4; rock dove, 98; hairy woodpecker, 7; downy woodpecker, 2; blue jay, 20; black-capped chickadee, 22; white-breasted nuthatch, 9; starling, 41; English sparrow, 102; evening grosbeak, 6; redpoll, 2. Total, 12 species; 314 individuals. (Dec. 14: pileated woodpecker, 2.)-Edna G. Ross, Verna M. Ross, Allan F. Ross.

16. Simcoe, Ont. (Long Point, Provincial Forestry Station at St. Williams, Port Dover and Lynn Valley).—Dec. 23; 8:30 a.m. to 4:30 p.m. Clear; slight W wind; about 8-in, snow on the level; temp. -9° at start, 12° at return. Eight observers in 3 parties. Total hours afield, 52; total party miles, 102 (92 by car, 10 by foot). Mallard, 14; black duck, 206; red-tailed hawk, 2; red-shouldered hawk, 1; Am. rough-legged hawk, 1; sparrow hawk, 1; ring-necked pheasant, 1; great black-backed gull, 1; herring gull, 12; ring-billed gull, 1; mourning dove, 4; rock dove, 3; pileated woodpecker, 2; hairy woodpecker, 2; downy woodpecker, 7; blue jay, 17; crow, 1; black-capped chickadee, 56; whitebreasted nuthatch, 6; red-breasted nuthatch, 5; brown creeper, 4; golden-crowned kinglet, 1; northern shrike, 2; starling, 419; English sparrow, 29; cardinal, 4; goldfinch, 11; slate-colored junco, 65; tree sparrow, 44; song sparrow, 2.

Total, 30 species; 924 individuals,-Dr. Hughes, H. Sivyer, H. Milnes, J. Jackson, M. Landon, A. Landon, A. Preston, J. McInally (members and friends J. W. Crow Nature Club).

17. Toronto, Ont. (woods and fields along upper branches of Don River; open farmland 50%, beech, maple, hemlock woods 50%).-Dec. 23; dawn to dusk. Clear; temp. -6° to 3° F.; wind NE, 3-7 m.p.h.; ground covered with 4-in, crusted snow. Five observers in 1 party. Total hours, 9; total miles, 25 (15 by car, 10 by foot). Red-tailed hawk, 1; rough-legged hawk, 9; marsh hawk, 1; sparrow hawk, 2; pheasant, 8; herring gull, 5; snowy owl, 2; short-eared owl, 4; hairy woodpecker, 2; downy woodpecker, 8; blue jay, 2; black-capped chickadee, 23; whitebreasted nuthatch, 1; brown creeper, 1; northern shrike, 2; starling, 12; English spárrow, 21; cardinal, 2; goldfinch, 1; junco, 2; tree sparrow, 2. Total, 21 species; 111 individuals. — J. M. Speirs, D. L. MacDonald, J. R. Miller, J. W. MacArthur, R. H. MacArthur.

18. Willowdale, Ont. (fields, woods, and river valleys of North York Township, about 10 square miles).-Dec. 23; 10 a.m. to 5 p.m. Clear; 6-in. snow; wind NW, 8-12 m.p.h.; temp. -10° at start, -10° at return. Four observers in 1 party. Total hours afield, 7 (by foot); total party miles, 25 (by foot). Black duck, 1; Am. merganser, 3; ring-necked pheasant, 17; herring gull, 2; screech owl, 2; horned owl, 2; longeared owl, 3; saw-whet owl, 1; belted kingfisher, 1; hairy woodpecker, 1; downy woodpecker, 3; black-capped chickadee, 28; white-breasted nuthatch, 2; northern shrike, 1; starling, 5; English sparrow, 32; goldfinch, 9; slate-colored junco, 8; tree sparrow, 6. Total, 19 species; 127 individuals.-R. F. James, Hugh H. Halliday, Norman Duncan Martin, Alexander Cringan.

19. Woodstock, Ont. (from Woodstock south to Currie, circling large pond with surrounding swamp, woodland, and marsh; cedar wood and swamp 34%, deciduous woods 20%, scattered mixed woodland 8%, open field 32%, marsh 4%, cut-over woodland 1%, suburbs 1%).-Dec. 30; 8:45 a.m. to 4 p.m. Driving rain all day; temp. 34° to 36° F.; wind S to SSW, 8-12 m.p.h.; 2-3-in, old crusted snow; all water, other than springs, frozen, but flooded and unsafe; visibility low, impossible to distinguish colors at more than 10 yards. Five observers in 2 parties. Total hours, 111/4; total miles, 12 (on foot). Ruffed grouse, 1; ring-necked pheasant, 3; downy woodpecker, 5; blue jay, 4; crow, 1; black-capped chickadee, 154; white-breasted nuthatch, 4; brown creeper, 1: golden-crowned kinglet, 11: starling, 10; English sparrow, 6; tree sparrow, 3. Total, 12 species; 203 individuals. (Seen in area Dec. 27: robin, 1.)-D. Coles, E. J. Dutton, G. L. Nutt, H. Webster, H. Milnes (Woodstock Naturalist Society).

20. Hudson Heights, Que. (same area as in 1944; mixed evergreen and deciduous woods 25%, second-growth and brush 20%, open farmland 20%, golf course 10%, village and gardens 25%).-Dec. 30; 7:30 a.m. to 4:30 p.m. Dull; poor visibility; snowfall 9 to 11:15 a.m. and 1:30 to 3 p.m., rain from then to dark; wind E by N. 1 m.p.h.; temp. 26° to 34° F.; bar. 29.82; 8-in. snow on ground; some streams and areas of flood water open. Twenty-two observers in 8 parties. Total hours, 281/2 (18 on skis, 101/2 on foot); total miles, 431/4 (30 on skis, 131/4 on foot). Ruffed grouse, 2; hairy woodpecker, 3; downy woodpecker, 5; blue jay, 65; black-capped chickadee, 146; white-breasted nuthatch, 2; starling, 48; English sparrow, 53; purple finch, 1; evening grosbeak, 4; pine grosbeak, 46; pine siskin, 60; tree sparrow, 3. Total, 13 species; 438 individuals. (Evening grosbeaks, up to 28 in 1 flock, seen at frequent intervals during December. Small count reflects bad weather conditions; very few birds noted even at feeding stations.) -Violet Bryan, Amy Clarke, Mr. and Mrs. E. D. Croll, Jim F. Davis, Lindsay Hall, John and Roy Legate, Althea Macaulay, Mr. and Mrs. Dunbar Mullan, Mr. and Mrs. John Mullan, Cecil Nelson, Mr. and Mrs. Geof. Ommanney, Betty Puxley, Mary Pyke, Mr. and Mrs. George Riley, Arthur Terreault, Mac. Yuile.

21. Montreal, Que. (Mount Royal, Cote St. Luc, La Salle Woods, Verdun, Nun's Island, and south shore of St. Lawrence River from Caughnawaga to Longueuil).-Dec. 23; Fair; wind WSW, 20-25 m.p.h.; temp. 7° to 14° F.; visibility good; 3-in. old hard snow on ground. Twenty-two observers in 8 parties. Total miles, 171 (50 on foot, 1 by boat, 120 by car); total hours, 33. Am. golden-eye, 403; Am. merganser, 15; goshawk, 3; rough-legged hawk, 1; ringnecked pheasant, 75; herring gull, 6; great horned owl, 4; snowy owl, 10; hawk owl, 1; barred owl, 1; hairy woodpecker, 2; downy woodpecker, 13; crow, 2; black-capped chickadee, 74; white-breasted nuthatch, 3; brown creeper, 15; robin, 1; northern shrike, 1; starling, 700; English sparrow, 875; red-wing, 1; pine grosbeak, 1; tree sparrow, 1; snow bunting, 90. Total, 24 species; 2298 individuals (partly est.). (Seen on Dec. 21: duck hawk.) — M. Bower, J. Callaghan, S. M. Candlish, J. A. Decarie, C. Frankton, J. D. Fry, J. B. Gollop, G. E. Hibbard, C. W. L. Horn, H. A. C. Jackson, F. W. Kingdon, J. G. M. LeMoine, A. R. Lepingwell, R. A. Outhet, W. H. Rawlings, M. Robinson, J. A. Rolland, D. Ryan, E. A. Sherrard, E. E. Terrill, L. Mac I. Terrill, V. C. Wynne-Edwards (Province of Quebec Society for the Protection of Birds).

22. Quebec, Que. (same area as in 1944; town suburbs 8%, fields 22%, coniferous forests 17%, deciduous woods 6%, mixed woodlands 39%, shores 8%).—Dec. 27; 7:30 a.m. to 4:30 p.m. Clear until 10 a.m., then partly cloudy; temp. 11° to 27°; wind NW, 4-18 m.p.h.; 12-18-in. snow on ground; small rivers mostly frozen,

large moving ice fields on St. Lawrence River, Seven observers in 5 parties. Total hours, 32 (on foot); total miles, 34 (on foot). Ruffed grouse, 2; Iceland gull, 3 (Lord); great black-backed gull, 3; herring gull, 13; snowy owl, 1; hairy woodpecker, 4; downy woodpecker, 1; blue jay, 5; crow, 1; black-capped chickadee, 70; Acadian chickadee, 1; robin, 1; kinglet (sp. ?), 3; starling, 60 (est.); English sparrow, 23; pine grosbeak, 13; common redpoll, 72. Total, 17 species; about 276 individuals.—Mrs. G. Langelier, Louis-A. Lord, Louis Lemieux, Lionel Cinq-Mars, Pierre-A. Cayouette, Alexandre Desmeules, Raymond Cayouette (La Société Zooligique de Québec).

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23. Yorkton, Sask. (area 15 miles in diameter with Yorkton as center).-Dec. 26; 9 a.m. to 5 p.m. Overcast in a.m., bright in p.m. but ending in a light snow flurry; wind SE, about 10 m.p.h.; 6-in. snow on fields; temp. -2° at start. 5° at return. Ten observers in 6 groups. Total party hours, 11 (5 by car, 6 on foot); total party miles, 461/2 (39 by car, 71/2 on foot). Goshawk, 1; sharp-tailed grouse, 6; Hungarian partridge, 13; snowy owl, 3; hairy woodpecker, 1; downy woodpecker, 4; Canada jay, 1; blue jay, 1; magpie, 6; starling, 5; English sparrow, 139 (est.); snow bunting, 568 (est.). Total, 12 species; about 748 individuals. (Dec. 29: black-capped chickadee, 2: this species has been scarce here this winter.) - Ray Adam, Mrs. Barrie, Brother Clarence, C. Stuart Houston, C. J. Houston, F. Langstaff, Eddie Lawrence, Mrs. J. Meekma, Diana Priestly, Mrs. I. M. Priestly.

24. Bar Harbor, Maine (Mount Desert Island, Acadia National Park).—Dec. 29. Overcast; temp. 34°, wind SE; light snow beginning at 1 p.m.; lakes, streams, sheltered bays frozen. Six observers in 3 groups. Total hours, 32 (21 on foot, 11 by car); total miles, 87 (17 on foot, 70 by car). Common loon, 2; red-throated loon, 2; Holboell's grebe, 11; horned grebe, 8; European cormorant, 17; black duck, 218; greater scaup, 29; Am. golden-eye, 164; buffle-head, 97; old-squaw, 223; Am. eider, 2000 (est.); whitewinged scoter, 8; Am. scoter, 30; red-breasted merganser, 9; bald eagle, 1; ruffed grouse, 2; great black-backed gull, 14; herring gull, 255; rock dove, 19; hairy woodpecker, 1; downy woodpecker, 1; blue jay, 2; raven, 2; crow, 74; black-capped chickadee, 26; red-breasted nuthatch, 9; brown creeper, 1; mockingbird, 1 (studied through 8x30 B.&L. binoculars at close range - M.S. and F.A.); robin, 2; goldencrowned kinglet, 1; northern shrike, 1; starling, 29; pine grosbeak, 9; slate-colored junco, 7; song sparrow, 1. Total, 35 species; about 3276 individuals.-Mrs. Effie Anthony, Franklin Anthony, Jack Anthony, Walter Flagg, Inez Suminsby, Maurice Sullivan (Mt. Desert Island Bird Club).

25. Brunswick, Maine (and outskirts; area about 10 miles in diameter).—Dec. 25. Cloudy,

with snow in p.m.; temp. 26° to 32°. Total hours, 10 (7 on foot, 3 by car). Am. golden-eye, 2; ruffed grouse, 1; great black-backed gull, 4; herring gull, 41; northern horned lark, 9; blue jay, 1; crow, 6; black-capped chickadee, 3; white-breasted nuthatch, 1; golden-crowned kinglet, 2; northern, shrike, 1; starling, 3000+; pine grosbeak, 3; English sparrow, 6; snow bunting, 16. Total, 15 species; about 3096 individuals.—Robert N. Biette.

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26. Danforth, Maine (center of town to point 1 mile on Springfield Road; from Notch over the horseback, following the Baskahegan River to the Point; open farmland 50%, evergreen woods 50%).—Dec. 30; 10 a.m. to 3 p.m. Steady rain; temp. 32° to 34°; wind ENE, 1-7 m.p.h.; ground covered with 6-10-in. slush; river partly open. Two observers in 1 party. Total hours, 5 (all on foot due to slippery condition of the roads); total miles, 6. Bald eagle, 1; pileated woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 2; blue jay, 4; black-capped chickadee, 50; golden-crowned kinglet, 2; starling, 3; English sparrow, 5; pine grosbeak, 3. Total, 10 species; 73 individuals.—Eva Fifield, Marjorie Lee.

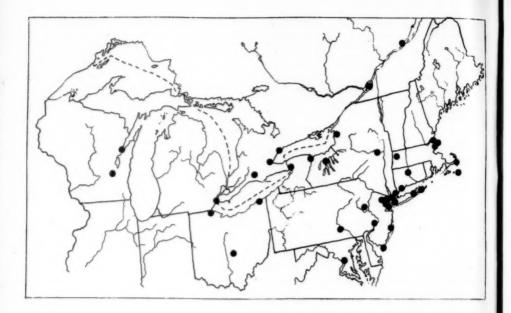
27. Rockland, Maine (to Owl's Head Point and return; by boat across Penobscot Bay to Vinalhaven; open bay and ocean 40%, spruce forest with some birch 30%, rocky coast and islands 20%, hilly fields 10%).-Dec. 28; dawn to dusk, Fair; temp. 25° to 35°; wind SE, 1-7 m.p.h.; patches of snow on ground; all water open. Two observers together. Total hours, 12 (10 on foot, 2 by boat); total miles, 26 (14 on foot, 12 by boat). Common loon, 40; European cormorant, 5; black duck, 55; Am. golden-eye, 90; old-squaw, 170; Am. eider, 120 (+1100 others not positively identified); king eider, 3; red-breasted merganser, 10; ruffed grouse, 1; Bonaparte's gull, 20; great black-backed gull, 8; herring gull, 400; black guillemot, 260; razorbilled auk, 1; unidentified alcidae, 2; dovekie, 1 (remains); rock dove, 80; pileated woodpecker, 1; hairy woodpecker, 3; blue jay, 2; crow, 18; raven, 2 (+1?); black-capped chickadee, 75; white-breasted nuthatch, 15; golden-crowned kinglet, 42; starling, 27; English sparrow, 15; pine grosbeak, 5; redpoll, 6; junco, 2; tree sparrow, 2; snow bunting, 1. Total, 32 species; 2582 individuals. (Seen in area Dec. 29-30: mockingbird, 1 (in good condition, closely observed through 8x glasses); evening grosbeak, 5; northern shrike, 1; raven, 16 (possibly coming from a roost)-Arthur Aronoff, Philip Wells.

28. Bennington, Vt. (Everett Orchards; woods on east slope of Mt. Anthony; along Walloomsac River; 4 feeding stations, 3 in Bennington village and 1 outside; apple orchard 20%, deciduous woods 15%, pine woods 15%, open river 20%, feeding stations 30%).—Dec. 30; 8 a.m. to 4 p.m. Low clouds but visibility good; wind S, 1-2 m.p.h.; temp. 26° to 39°;

ground covered with 3-6-in. loose snow. Eight observers in 5 parties (2 afield, 6 watching feeding stations). Total hours afield, 10; total miles, 12 (9 on foot, 3 in auto). White-winged scoter, 2; ring-necked pheasant, 4; barred owl, 1; hairy woodpecker, 2; downy woodpecker, 9; blue jay, 21; crow, 7; black-capped chickadee, 18; white-breasted nuthatch, 12; brown creeper, 1; starling, 200+; English sparrow, 150+; evening grosbeak, 15; pine grosbeak, 20; pine siskin, 12; goldfinch, 1; white-winged crossbill, 4; slate-colored junco, 11; tree sparrow, 33. Total, 19 species; about 523 individuals. The white-winged scoters were seen by 2 observers at close range.-Dr. and Mrs. Lucretius H. Ross, Mrs. Margery Ludlow, Howard Nash, Mrs. Stella Higgins, Mrs. F. Hurlay, Mr. and Mrs. R. R. Smith.

29. Wells River. Vt. (north, south, and west of Wells River, covering portions of the Connecticut and Wells River valleys; some variation from former years because of increasing difficulty with hurricane debris on part of old route; open farmland 35%, town streets 5%, woodland 60%).—Dec. 27; 9:30 a.m. to 4:30 p.m. Cloudy with snow squalls at start, but clearing at 10 a.m. and cloudless after noon; temp. 33° at start, 20° at return; wind NW, 35 m.p.h. at start, diminishing to 15 and finally to 10; ground bare in fields, 1-3-in. snow in woods; some open water in Wells River, considerable in Connecticut River. Two observers, together during part of the time. Total hours, 7; total miles, 11 (on foot). Am. golden-eye, 65; Am. merganser, 10; ruffed grouse, 7; hairy woodpecker, 2; downy woodpecker, 2; blue jay, 5; crow, 3; chickadee, 62 (12 flocks); whitebreasted nuthatch, 1; red-breasted nuthatch, 2; brown creeper, 2; golden-crowned kinglet, 5; starling, 161; pine grosbeak, 6; tree sparrow, 10. Total, 15 species; 343 individuals.-Wendell P. Smith, Walter Fletcher.

30. Belmont and Fresh Pond (Cambridge), Mass. (entire Town of Belmont plus adjacent Fresh Pond and Fresh Pond Marshes; same as 11 previous years; greatest diameter 4 miles; deciduous woodland 30%, open meadow 20%, ponds 15%, evergreen woodland 15%, residential 20%).-Dec. 24; 7:45 a.m. to 4 p.m. Clear; temp. 14° to 31° F.; wind NW, 15-5 m.p.h.; 14-in. snow on ground; ponds almost completely closed. Twenty-two observers-7 alone, 10 in pairs, one group of 5. Total hours, 31; total miles, 32 (afoot). Mallard, 7; black duck, 23; Am. merganser, 31; red-shouldered hawk, 1; duck hawk, 1; sparrow hawk, 4; pheasant, 18; black-backed gull, 2; herring gull, 450; longeared owl, 1; flicker, 7; hairy woodpecker, 3; downy woodpecker, 20 (highest); blue jay, 37; crow, 41; black-capped chickadee, 229 (previous highest 141); white-breasted nuthatch, 19 (highest); red-breasted nuthatch, 1; brown creeper, 5; mockingbird, 1 (at feeding station since



Oct.); golden-crowned kinglet, 16; starling, 136; English sparrow, 182; evening grosbeak, 14; purple finch, 60 (highest); pine grosbeak, 3; pine siskin, 5; goldfinch, 20; junco, 106 (second only to last year; nearly all at feeding stations); tree sparrow, 30 (average 86); whitethroated sparrow, 4; fox sparrow, 1; song sparrow, 9 (average 22). Total, 33 species; 1487 individuals. (Ruffed grouse, 2, seen Dec. 23.) Unusual concentration at feeding stations due to very cold and snowy December; nonfeedingstation birds below normal. - Mr. and Mrs. Harold Brown, Mrs. Francis Davis, Mrs. G. A. Drew, George Drew, Jr., Mr. and Mrs. Hervey Elkins, Kimball Elkins, Kenny Hamilton, Norman Harris, Norman Hill, Nickey Norwood, Mr. and Mrs. Parker Reed, Austen Riggs, Chandler Robbins, Mr. and Mrs. Samuel Robbins, Henry Sigourney, Pete Simonds, Robert Smolker, Mrs. Ross Walker (Belmont Bird Club).

31. Cape Ann, Mass. (Beverly, Essex, Manchester, Gloucester, Rockport).—Dec. 23; dawn to sunset. Clear; light NW wind; ground snow covered; all marshes and ponds frozen; temp. 5° to 25°. Seventeen observers in 3 parties. Total hours afield, 27; total party miles, 125 (110 by car, 15 on foot). Common loon, 13; red-throated loon, 2; horned grebe, 24; European cormorant, 44; Canada goose, 10; mallard, 1; black duck, 240; greater scaup, 800; buffle-head, 14; old-squaw, 42; white-winged scoter, 142; Am. scoter, 7; hooded merganser, 1; red-breasted merganser, 167; Cooper's hawk, 1; purple sandpiper, 30; great black-backed gull,



Photograph by Allan D. Crnickshank

Snowy owls arrived as predicted. A sample of the flight during the last week in December, the above map indicates the location of the 40 Christmas bird counts that recorded a total of 91 of these owls. In spite of the fact that there was a marked invasion of these birds, they were reported on only 30% of the lists in the region outlined.

27; herring gull, 1030; Brünnich's murre, 1; black guillemot, 9; rock dove, 17; snowy owl, 1; belted kingfisher, 1; flicker, 7; hairy woodpecker, 1; downy woodpecker, 4; northern horned lark, 21; blue jay, 38; crow, 105; blackcapped chickadee, 169; white-breasted nuthatch, 3; brown creeper, 2; robin, 5; golden-crowned kinglet, 16; northern shrike, 1; starling, 694; myrtle warbler, 17; English sparrow, 121; evening grosbeak, 18; purple finch, 20; pine grosbeak, 16; goldfinch, 44; junco, 46; tree sparrow, 64; fox sparrow, 1; song sparrow, 5. Total, 46 species; about 4042 individuals.-Mr. and Mrs. Arthur W. Argue, Wallace Bailey, James Baird, Elsie M. Boyle, Frances Burnett, Dorothy Caldwell, Dorothy H. Q. Driscoll, R. L. Grayce, Mr. and Mrs. H. N. Halberg, Shirley B. Howard, James V. Moran, Private Thomas B. O'Connell, Carroll N. Peacor, J. Douglas Sands, A. R. Vahan.

32. Cape Cod, Mass. (parts of Harwich, Brewster, Chatham, Orleans, Eastham; same territory since 1931).-Dec. 23; dawn to dusk. Fair, with occasional snow flurries in a.m.; temp. 8° to 20°; brisk NW wind; a foot of snow on the level; everything frozen, even 5 square miles of salt water in Pleasant Bay. The low list of species and low count of individuals reflect one of the most rigorous Decembers in history. Fourteen observers in 3 parties over well-known routes. Total hours, 27; total miles, 167 (145 by car, 22 on foot). Loon, 21; piedbilled grebe, 1; European cormorant, 2; great blue heron, 10; Canada goose, 1360; brant, 42; mallard, 2; black duck, 1000; scaup, 350; goldeneye, 640; buffle-head, 125; old-squaw, 80; eider, 1150; white-winged scoter, 65; Am. scoter, 39; hooded merganser, 3; Am. merganser, 89; redbreasted merganser, 43; sharp-shinned hawk, 2; red-tailed hawk, 1; marsh hawk, 6; ruffed grouse, 2; red-backed sandpiper, 260; sanderling, 25; black-backed gull, 30; herring gull, 1600; ring-billed gull, 15; kittiwake, 1; Brünnich's murre, 1; dovekie, 1; rock dove, 2; snowy owl, 1; kingfisher, 3; flicker, 36; downy woodpecker, 3; horned lark, 70; blue jay, 14; crow, 128; black-capped chickadee, 115; red-breasted nuthatch, 1; brown creeper, 1; catbird, 1 (appeared half-dead); robin, 50; golden-crowned kinglet, 2; northern shrike, 7; starling, 139; myrtle warbler, 330; pine warbler, 1 (almost dead); English sparrow, 130; meadowlark, 2; evening grosbeak, 7 (2 small flocks; other flocks reported at Chatham and Harwichport; the first time this species in flocks has ever reached outer Cape Cod); goldfinch, 20; red crossbill, 3; Ipswich sparrow, 1; savannah sparrow, 6; junco, 48; tree sparrow, 140; white-throated sparrow, 7; fox sparrow, 2; swamp sparrow, 7; song sparrow, 41; Lapland longspur, 1; snow bunting, 2. Total, 63 species; 8287 individuals. -R. J. Eaton, Frances Elkins, Mr. and Mrs. M. Emery, Andrew and Ludlow Griscom, Stuart K. Harris, Norman P. Hill, Martin Karplus, Russell Mason, Rosario Mazzeo, Austen Riggs, Chandler Robbins, Oscar Root.

33. Cohasset and North Scituate Beach, Mass. (town suburbs 10%, woodland 50%, fields 20%, seacoast 20%).-Dec. 25; 8 a.m. to 4:15 p.m. Overcast; temp. 10° to 40°; wind E, 1-7 m.p.h.; ground covered by 8-in, snow. Two observers together. Total hours, 81/4 (on foot); total miles, 8. Common loon, 6; European cormorant, 17; black duck, 86; Am. golden-eye, 23; whitewinged scoter, 1; red-breasted merganser, 3; pheasant, 1; great black-backed gull, 15; herring gull, 215; barred owl, 1 (heard in early a.m.); belted kingfisher, 1; downy woodpecker, 1; blue jay, 10; crow, 23; black-capped chickadee, 35; robin, 2; cedar waxwing, 2; starling, 16; English sparrow, 7; meadowlark, 1; evening grosbeak, 12; goldfinch, 12; slate-colored junco, 22; tree sparrow, 49; white-throated sparrow, 1; song sparrow, 2. Total, 26 species; 564 individuals. (Seen in area Dec. 23: bluebird, 1-L.B.F.) - Laurence B. Fletcher, Winsor M.

34. Great Barrington, Mass. (central and west side of Great Barrington, south through Sheffield to Ashley Falls and west to include a section of South Egremont).-Dec. 29; 8 a.m. to 3 p.m. Snow with limited visibility; 2-in. new snow at start, 5-in. at return; temp. 24° at start, 29° at return; no wind. Eight observers, one party of 2 (Gleize and Varney) covering area in car and on foot, and others keeping close checks at feeders and around their homes. Total party hours afield, 7 (5 afoot, 2 by car); total party miles, 26 (6 afoot, 20 by car). Black duck, 5; Am. merganser, 4; ruffed grouse, 1; great horned owl, 1 (heard at 10 p.m.); hairy woodpecker, 2; downy woodpecker, 8; blue jay, 18; crow, 7; black-capped chickadee, 80; white-breasted nuthatch, 11; brown creeper, 3; golden-crowned kinglet, 2; starling, 64; English sparrow, 8; evening grosbeak, 37; slate-colored junco, 17; tree sparrow. 43. Total, 17 species; 311 individuals.—Jessie Buck, Daniel Gleize, Mrs. Adrian C. Hinds, Mrs. R. J. Longdyke, Mr. and Mrs. William B. Nisbet, Jr., Eugene H. Varney, Mrs. Donald Worthington.

35. Holyoke, Mass. (same area as in previous counts; Connecticut River and adjacent fields 30%, town suburbs 30%, deciduous woods 20%, evergreen woods 10%, airport 5%, small streams 5%).—Dec. 23; 7 a.m. to 4:30 p.m. Fair; temp. 7° to 20° F.; wind NW, 25-38 m.p.h.; ground covered with 6-in. powdery snow; all ponds frozen; Connecticut River frozen in spots. Three observers afield together; others watching feeding stations severally. Total hours, 8 (on foot); total miles, 12 (on foot). Black duck, 45; Am. golden-eye, 5; Am. merganser, 78; red-tailed hawk, 1; sparrow hawk, 1; ruffed grouse, 1; herring gull, 12; screech owl, 1; hairy wood-

pecker, 1; downy woodpecker, 9; northern horned lark, 57; blue jay, 9; crow, 85; blackcapped chickadee, 130; white-breasted nuthatch, 6; red-breasted nuthatch, 1; brown creeper, 1; golden-crowned kinglet, 6; northern shrike, 1; starling, 500 (est.); English sparrow, 85; evening grosbeak, 8; pine grosbeak, 10; pine siskin, 2; slate-colored junco, 25; tree sparrow, 98; field sparrow, 1 (well seen at 20 ft. with 8x binoculars, permitting observation of pink bill and spotless breast - A.M.B.); song sparrow, 9. Total, 28 species; about 1188 individuals. (Seen in area Dec. 18-21; fox sparrow, 1.)-A. C. Bagg, A. M. Bagg, E. P. Bagg, H. M. Bagg, V. S. Bagg, Alma Doane, A. B. Mitchell, D. Moriarty, Dorothy Newcomb, Mrs. George Ritter.

36. Nantucket, Mass. (Nantucket west to Smith's Point, east to Wauwimet and Siasconsett).-Dec. 30; dawn to dusk. Fair after easterly gale on 29th; becoming totally overcast in p.m.; temp. 30° to 45°; wind very light, NW to SE; ground bare; all fresh-water ponds frozen, a most exceptional event in December; temp, dropped to 14° after 6-in, snow Dec. 20. Barring some stray records, no published list of the winter bird life of the island exists, and no reliable information is extant. The list below contains numerous "first records" for the island, but it is impossible to evaluate their significance. Three observers in 1 party. Total miles, 42 (37 by car, about 5 on foot). Loon, 29; redthroated loon, 1; European cormorant, 3; black-crowned night heron, 1; black duck, 62; scaup, 7; golden-eye, 210; buffle-head, 8; oldsquaw, 550; harlequin duck, 2 (off breakwater); eider, 96; white-winged scoter, 685; surf scoter, 27; Am. scoter, 1; red-breasted merganser, 30; red-tailed hawk, 5; rough-legged hawk, 8; marsh hawk, 6; sparrow hawk, 4; ruddy turnstone, 12 (on breakwater; there is a previous winter record); purple sandpiper, 5 (on breakwater); black-backed gull, 92; herring gull, 865; dovekie, 3 (includes 1 dead inland); rock dove, 4; snowy owl, 4; short-eared owl, 1; flicker, 15; hairy woodpecker, 1 (first record; probably one of the rarest of vagrants to this nearly treeless island); horned lark, 7; blue jay, 1; crow, 66; black-capped chickadee, 12; red-breasted nuthatch, 5; mockingbird, 1 (species known to be resident on the island since 1877); robin, 1; northern shrike, 1; starling, 67; myrtle warbler, 94; English sparrow, 120; meadowlark, 3; evening grosbeak, 2 (surely a remarkable record; seen at 20 ft. on lawn in town, feeding on fallen privet berries); pine siskin, 79 (3 flocks); red crossbill, 3; junco, 2; tree sparrow, 2; song sparrow, 3. Total, 47 species; 3206 individuals. -Andrew and Ludlow Griscom, Oscar M.

37. Newburyport, Mass. (Plum Island to West Newbury, south to Topsfield and Ipswich).—Dec. 30; dawn to 5:30 p.m. Clear in

a.m., overcast in p.m.; ground covered with 6-18-in, snow from storm previous day, the third heavy snowfall in December; marshes. ponds, and rivers largely frozen; temp. 200 to 39°; wind light, NW, shifting in p.m. to SW. Twenty-two observers in 7 parties, 3 entirely on foot. Total hours afield, 131; total party miles, 175 (120 by car, 55 on foot). Common loon, 51; red-throated loon, 2; Holboell's grebe, 1; horned grebe, 20; European cormorant, 4; mallard, 1; black duck, 6850; scaup, 2635; golden-eye, 2275; buffle-head, 300; old-squaw, 530; white-winged scoter, 310; Am. scoter, 50; Am. merganser, 2; red-breasted merganser, 300; red-shouldered hawk, 1; rough-legged hawk, 1; bald eagle, 3; sparrow hawk, 6; ring-necked pheasant, 2; Iceland gull, 1; great black-backed gull, 78; herring gull, 1350; ring-billed gull, 7; Larus canus (sub-sp. ?), 1 (in Newburyport Harbor-Karplus, Mason, Ball, Pratt; as compared with ring-billed, the smaller size, shorter bill, and more white in wing-tip were noted; observed again and identification checked on Jan. 1 by Ludlow Griscom and 3 others; 1 specimen of this species previously collected and 2 other recent sight records from Massachusetts); Bonaparte's gull, 75; kittiwake, 1; rock dove, 72; snowy owl, 14; barred owl, 1; flicker, 15; hairy woodpecker, 10; downy woodpecker, 17; northern horned lark, 87; blue jay, 224; crow, 405; black-capped chickadee, 252; white-breasted nuthatch, 8; red-breasted nuthatch, 1; brown creeper, 2; golden-crowned kinglet, 16; northern shrike, 2; starling, 327; myrtle warbler, 40; English sparrow, 192; meadowlark, 1; bronzed grackle, 1; evening grosbeak, 74; purple finch, 2; pine grosbeak, 6; pine siskin, 3; goldfinch, 21; junco, 27; tree sparrow, 220; song sparrow, 3; Lapland long-spur, 2; snow bunting, 78. Total, 57 species; about 16,980 individuals. (Seen in area Dec. 29: black-crowned night heron, 1 - Karplus. The black-headed gull that has been present in Newburyport Harbor was not seen on Dec. 30, but was observed by a party of observers again on Jan. 1.)-Donald C. Alexander, Mr. and Mrs. Arthur W. Argue, A. Elizabeth Ball, Wallace Bailey, Edgar M. Batchelder, Fred Burrell, Mrs. J. F. Dubois, Mrs. Hervey Elkins, Kimball Elkins, Mr. and Mrs. Maurice C. Emery, Elmer P. Foye, Stuart K. Harris, Martin Karplus, Ralph Lawson, C. Russell Mason, C. Norman Peacor, Austen Riggs, Charlotte Pratt, Benjamin D. Shreve, Satira T. Stetson.

38. Northampton, Mass. (same circle as in past 11 years; most of time spent near houses or along edges of fields).—Dec. 23. Fair; wind NW, 25 m.p.h., poor for observation in open country; 8-12-in. snow; water frozen except for river pools; temp. 10° to 20°. Sixty-five observers—49 at or near their homes, and 16 in 9 parties, 8 with cars. Total hours, about 65 (afoot); total miles, 160 (at least 45 afoot, 15

by bicycle, 100 by car). Black duck, 6; Am. merganser, 32; goshawk, 2; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 4; ruffed grouse, 3; pheasant, 12; herring gull, 1; mourning dove, 2; screech owl, 2; great horned owl, 2; barred owl, 1; kingfisher, 1; hairy woodpecker, 29; downy woodpecker, 66; horned lark, 103; blue jay, 175; crow, at least 300 (at roost); chickadee, 311; white-breasted nuthatch, 62; red-breasted nuthatch, 2; creeper, 10; winter wren, 1; goldencrowned kinglet, 9; ruby-crowned kinglet, 1 (at feeder in Amherst for 4 days-Mrs. H.W.D.); northern shrike, 4; starling, 472; English sparrow, 670; rusty blackbird, 1 (R.L.C. - North Hadley; last censused in 1937); evening grosbeak, 169; purple finch, 16; pine grosbeak, 23; siskin, 4; goldfinch, 96; junco, 163; tree sparrow, 705; white-throated sparrow, 3; song sparrow, 10. Total, 40 species; at least 3476 individuals. (A little north of the circle: goldeneye, 3; bluebird, 1. A catbird was last seen on Dec. 18, and a robin on Dec. 21. Two cedar waxwings were seen on Dec. 31, and a mockingbird on Jan. 1.)-Alice Alcorn, J. L. Bagg, Leo Bliznak, Mrs. G. B. Churchill, R. M. Clark, R. L. Coffin, L. S. Combs, Isabelle Conner, Edward Cotton, Don Croix, James Dayton, Marion Deronde, Susan A. Florence Denny, Doleman, Mrs. H. W. Doughty, S. A. Eliot, Jr., Mr. and Mrs. Richard Fessenden, Robert French, H. M. Gore, Dwight and John Graves, Caroline E. Hamilton, Mrs. C. D. Harris, Mrs. Ralph Harris, Mrs. S. H. Harvey, Mrs. W. S. Hawley, Mrs. Calvin Hood, J. L. Huntington, Mrs. J. T. Kentfield, A. S. Kinney, Mrs. Percy Macintosh, J. J. Madeira, E. A. Mason, Mrs. Frank Merrick, John Norell, L. B. Packard, Esther J. Pollard, Mary T. Pomeroy, Samuel Potsubay, Mrs. F. C. Pray, F. P. Rand, Mr. and Mrs. D. A. Riedel, Dr. and Mrs. F. A. Saunders, Marie Schurr, Mrs. John Sessions, Ethel M. Smith, Mr. and Mrs. E. C. Staples, Mr. and Mrs. H. L. Sweetman, Mrs. G. E. Taylor, Mrs. C. L. Thayer, Wallace Torrey, Mrs. Seth Wakeman, Mrs. W. S. Welles, Mr. and Mrs. P. L. Wheelock, Ralph Whitcomb, Mr. and Mrs. Max Winkler, Alice M. Woods, Leonard Worley.

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39. Pittsfield, Mass. (woods and fields south and west of town; sewer beds; mature hemlock woods 25%, mixed woodlands, edges, and open country 75%).—Dec. 29; 7:30 a.m. to 4 p.m. Snowing; temp. 24° to 30°; wind 0-3 m.p.h.; still water frozen, river partly open; 1-in. new snow at start, 4-in. at return, over 3-5-in. old snow. Fifteen observers—8 together, 1 alone, the others at feeding stations. Total hours, 47; total miles, 11 (on foot). Ruffed grouse, 2; snowy owl, 2; hairy woodpecker, 3; downy woodpecker, 12; blue jay, 11; black-capped chickadee, 76; white-breasted nuthatch, 12; brown creeper, 1; starling, 49; English sparrow, 77; evening grosbeak, 39; pine grosbeak,

4; slate-colored junco, 14; tree sparrow, 81. Total, 14 species; about 383 individuals. (Cowbird at feeder daily but absent on day of count.)—Elizabeth Ball, Pvt. Robert K. Bernhard, Mrs. E. J. Fitz, Mrs. James E. Gregg, Mr. and Mrs. Bartlett Hendricks, Mrs. Edward Kopf, Mrs. Donnell D. MacCarthy, Orin P. McCarty, Mrs. Sol Minneci, Gary Shampang, Ronald Shampang, Mrs. John K. Stafford, Mrs. Leonard E. Sweitzer, Mrs. Carl S. Uhrig (Hoffmann Bird Club).

40. Ware, Mass. (center of town east to Furnace [Hardwick] and Lake Wickaboag; south on Ware River to Three-mile Bridge; Hardwick Pond south along Muddy Brook to Snow's Pond; Swift River from Bondsville to Quabbin Reservoir; Quabbin Reservoir area [south end]; town gardens 5%, open farmland 40%, deciduous woodland 20%, pine woodland 5%, marshes 10%, reservoir watershed 20%). -Dec. 30; 8 a.m. to 4 p.m. Lightly overcast; temp. 10° to 38° F.; wind E to SE, 1-7 m.p.h.; ground covered with 12-15-in, fresh snow; lower Quabbin Reservoir and rapids of rivers open. Eleven observers in 5 parties. Total hours, 26 (on foot); total miles, 29 (on foot). Black duck, 7; wood duck, 1; Am. golden-eye, 2; hooded merganser, 6; Am. merganser, 44; sharp-shinned hawk, 1; red-tailed hawk, 5; bald eagle, 1 (ad.); ruffed grouse, 2; ring-necked pheasant, 3; hairy woodpecker, 10; downy woodpecker, 11; northern horned lark, 28; blue jay, 86; crow, 51; black-capped chickadee, 193, vhite-breasted nuthatch, 5; golden-crowned ki siet, 3; northern shrike, 3; starling, 424; English sparrow, 274; cowbird, 1 (&, banded by L.M.); evening grosbeak, 59; pine grosbeak, 14; goldfinch, 5; slate-colored junco, 11; tree sparrow, 164; song sparrow, 1. Total, 28 species; 1415 individuals. (Seen in area Dec. 23: common redpoll, 18; Dec. 26: bald eagle, 1 (imm.); Dec. 28: herring gull, 3.)—J. H. Conkey, L. Marland, L. G. Albertine, May E. Albertine, W. Berube, Sally T. Berube, Leslie Campbell, Leonard Campbell, Lorraine Miller, D. McPhetres, Mary L. Smith (Quabbin Bird Club).

41. Winthrop-Beverly, Mass. (ocean front and bays 50%, residential areas 50%).—Dec. 23; 8:56 a.m. to 4:35 p.m. Clear; wind N, 2-10 m.p.h. Total miles, 25½ (25 by car, ½ on foot). Common loon, 1; European cormorant, 7; black duck, 55 (est.); greater scaup, 1; scaup (sp.?), 55 (est.); Am. golden-eye, 130 (est.); bufflehead, 95 (est.); old-squaw, 1; white-winged scoter, 130 (est.); surf scoter, 3; red-breasted merganser, 11; great black-backed gull, 5; herring gull, 1130 (est.); rock dove, 12; snowy owl, 1; starling, 35; English sparrow, 40 (est.); goldfinch, 3. Total, 17 species; about 1715 individuals.—Davis H. Crompton.

42. Providence, R. I. (Narragansett Bay shores to Barrington and Conimicut Point).—

Dec. 29; 7 a.m. to 4 p.m. Heavy snowfall all day; ponds frozen; wind strong; temp. 28° at start, 32° at return. Ten observers in 4 parties. Total party hours, 17 (8 on foot, 9 by car); total miles, 83 (68 by car, 15 on foot). Blackcrowned night heron, 16; black duck, 126; greater scaup, 2260; golden-eye, 43; Am. merganser, 69; red-breasted merganser, 23; redshouldered hawk, 1; sparrow hawk, 2; pheasant, 11; great black-backed gull, 3; herring gull, 610; flicker, 7; hairy woodpecker, 2; downy woodpecker, 4; blue jay, 21; crow, 49; chickadee, 75; white-breasted nuthatch, 8; redbreasted nuthatch, 1; brown creeper, 2; robin, 12; golden-crowned kinglet, 6; cedar waxwing, 3; northern shrike, 1; starling, 143; myrtle warbler, 2; English sparrow, 76; meadowlark, 1; evening grosbeak, 2; goldfinch, 2; junco, 11; tree sparrow, 64; field sparrow, 3; whitethroated sparrow, 3; song sparrow, 8. Total, 35 species; about 3670 individuals. (Very poor visibility due to heavy snowfall accounted for low count of greater scaup; a greater number was known to be in the area.)-Charles Wood, Charles C. Gardiner III, Robert Batchelor, Warren Howard, Mary Mason, Douglas L. Kraus, William B. Dean, Albert A. Barden, Jr., Carlos G. Wright, William A. Blome (R. I. Ornithological Club).

43. South Kingston, R. I. (Narragansett Bay from Bennet Shores to Pt. Judith; along coast to Charleston Beach; inland to eastern edge of Watchaug Pond; Worden's Pond; village of Kingston; mixed second-growth hardwoods 20%, open fields 40%, beach 20%, salt-water marsh 20%).-Dec. 23; 7:15 a.m. to 4:30 p.m. Clear; wind W, light to moderate; temp. 5° at start, 21° at return; ground covered with 8-in. snow except for a few places swept bare by wind; ponds and streams frozen except where current was strong. Four observers in 1 party. Total party hours, 9 (4 on foot, 5 by car); total party miles, 63 (3 on foot, 60 by car). Common loon, 7; red-throated loon, 3; horned grebe, 11; pied-billed grebe, 1 (by 3 observers, seen on salt water); European cormorant, 10; great blue heron, 1; Canada goose, 32; mallard, 1; black duck, 224; green-winged teal, 3; ringnecked duck, 1; greater scaup, 51; Am. goldeneye, 203; buffle-head, 11; Am. eider, 2; whitewinged scoter, 62; surf scoter, 27; Am. scoter, 51; ruddy duck, 1; hooded merganser, 4; Am. merganser, 76; red-breasted merganser, 18; sharp-shinned hawk, 2; Cooper's hawk, 1; redtailed hawk, 1; marsh hawk, 3; great blackbacked gull, 20; herring gull, 194; ring-billed gull, 2; Bonaparte's gull, 31; belted kingfisher, 1; flicker, 11; downy woodpecker, 2; northern horned lark, 95; blue jay, 13; crow, 16; chickadee, 10; robin, 15; bluebird, 4; starling, 97; myrtle warbler, 12; English sparrow, 18; meadowlark, 43; red-wing, 3; cowbird, 5; evening grosbeak, 81; purple finch, 9; pine grosbeak, 6; goldfinch, 17; savannah sparrow, 2; junco,

19; tree sparrow, 86; field sparrow, 1; whitethroated sparrow, 17; fox sparrow, 5; song sparrow, 25; snow bunting, 3. **Total**, 57 species; about 1670 individuals. — Gladys Coggeshall, Edward Coman, William Dean, Douglas Kraus.

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[Another count covering much of the same territory was made on Dec. 30 by the Little Rest Bird Club—44 species; 1452 individuals. Additional species recorded by this group were: old-squaw, 8; sparrow hawk, 2; mourning dove, 4; pine siskin, 20; red-eyed towhee. Their total for evening grosbeaks was 215. Observers were: Mrs. Mary Rollins, Mrs. Ralph Parker, Mrs. Herbert Gates, Mr. and Mrs. Gilbert Hall, Mr. and Mrs. S. S. Gairloch.—Ed.]

44. Hartford, Conn. (circle with 7½-mile radius centered at Old State House, Hartford). -Dec. 29; dawn to dark. Light snow changing to rain and sleet; very heavy snow in p.m.; 17.6-in, snowfall for the day; wind N, 12-30 m.p.h.; temp. 26° to 28°; streams and ponds partly open. Thirty-six observers in 11 parties. Total hours, 102; total miles, 148 (58 on foot, 90 by car). Mallard, 1; black duck, 240; Am. merganser, 123; red-shouldered hawk, 1; duck hawk, 2; sparrow hawk, 4; pheasant, 34; herring gull, 21; barn owl, 1; screech owl, 2; snowy owl, 2; barred owl, 1; long-eared owl, 5; shorteared owl. 5: flicker, 4: hairy woodpecker, 5: downy woodpecker, 30; northern horned lark, 12; blue jay, 89; crow, 62; chickadee, 140; white-breasted nuthatch, 36; red-breasted nuthatch, 2 (F.D.K.); brown creeper, 7; robin, 2; golden-crowned kinglet, 14; starling, 940; English sparrow, 375; evening grosbeak, 153; purple finch, 9; redpoll, 23 (A.D.S.); goldfinch, 14; slate-colored junco, 174; tree sparrow, 107; field sparrow, 1; white-throated sparrow, 9; fox sparrow, 1; swamp sparrow, 3; song sparrow, 27. Total, 39 species; about 2681 individuals. (Seen in area during census week; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 2; bald eagle, 2; ruffed grouse, 2; dovekie, 1 [picked up exhausted on bank of Conn. River]; belted kingfisher, 1; winter wren, 1; mockingbird, I [regular visitor at feeding station of A.G.P.]; bluebird, 8; northern shrike, 2; migrant shrike, 1; white-winged crossbill, 6 [observed at close range in yard of B.D.]; vesper sparrow, 1 (E.A.B.); Lapland longspur, 2 [seen by 5 members].)—S. Adler, Mrs. H. F. Ami-don, Mrs. W. A. Ball, D. Barber, R. Belden, Mrs. A. P. Bennett, Mr. and Mrs. E. A. Bergstrom, Mr. and Mrs. P. M. Bergstrom, Mrs. M. Bessey, J. Bidwell, E. Chittenden, Edith Downey, Laura East, P. E. Fellows, Mary Field, R. Goodell, C. Hamilton, R. Kierstead, Mr. and Mrs. F. D. Knight, Mrs. T. Ludington, A. J. Moody, J. O'Brien, H. Parks, A. Powers, Doris Purinton, Mrs. T. B. Rhines, Mrs. R. J. Risley, R. Smart, Mr. and Mrs. A. D. Spring, C. Stamm, E. Wadstrom, W. Warner (Hartford Bird Study Club).

45. Litchfield, Conn. (center of town north

6 miles to Tyler Pond, west 3 miles to Bantam Lake and neighboring woodland; open farmland 50%, town suburbs 20%, deciduous and hemlock forest 5%, lake shore 15%, cattail swamp 10%).—Dec. 24; 8:30 a.m. to 4:15 p.m. Clear; temp. 20° to 30° F.; wind N, 8 m.p.h.; approx. 1 foot of snow heavily drifted; all water frozen except lake outlet and forest springs. Two observers in 2 parties. Total hours, 12; total miles, 14. Canada goose, 61; mallard, 75; black duck, 16; hooded merganser, 4; ruffed grouse, 1; coot, 1; rock dove, 35; barred owl, 1; hairy woodpecker, 2; downy woodpecker, 1; blue jay, 11; crow, 2; black-capped chickadee, 17; white-breasted nuthatch, 2; golden-crowned kinglet (heard); northern shrike, 1; English sparrow, 40; evening grosbeak, 22; slate-colored junco, 1; tree sparrow, 7. Total, 20 species: 300 individuals. The early onset of winter and the heavy blanket of snow seem to have reduced the local bird population to a minimum.—S. D. Ripley, Clarissa Deming.

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46. Oxford, Conn. (Park Road north to Quaker Farms, then to Stevenson, to Squantuck, and back over Rockhouse Hill; brushy pastures 30%, open land 40%, river front 20%, woodland 10%) .- Dec. 30; 7:15 a.m. to 3 p.m. Cloudy and foggy; 1-in, fresh snow over 4-in. crusted snow; ice on trees from storm of previous day; river open from Stevenson Dam to Squantuck; still water frozen; wind, NSE, 0-7 m.p.h.; temp. 24° to 32°. Total hours, 734 (on foot); total miles, 13 (on foot). Am. merganser, 23; goshawk, 1 (large, light gray hawk); redshouldered (?) hawk, 1 (heard); ruffed grouse, 1; herring gull, 5; flicker, 1; hairy woodpecker, 9; downy woodpecker, 8; blue jay, 72; crow, 13; chickadee, 87; white-breasted nuthatch, 9; winter wren, 1; bluebird, 10; golden-crowned kinglet, 3; starling, 23; myrtle warbler, 62; English sparrow, 51; evening grosbeak, 44; goldfinch, 4; junco, 16; tree sparrow, 61; field sparrow, 2; song sparrow, 3. Total, 24 species; 510 individuals.-Alfred P. Harger.

47. Saybrook, Conn. (1/4 mile south of Essex to Sound, along Connecticut River; deciduous woods 30%, overgrown fields 35%, marsh, river, and sound shore 20%, other woods and fields 15%).—Dec. 28; 9 a.m. to 5:30 p.m. Fair; wind W, 5-13 m.p.h.; temp. 32° to 40°; ground patched with snow; water open in river and tidal creeks, frozen in coves, marshes, ponds. Total hours, 81/2 (on foot); total miles, 13 (on foot). Great blue heron, 1; black duck, 29; scaup (?), 9; golden-eye (?), 17; buffle-head, 1; Am. merganser, 45; bald eagle, 4; red-tailed hawk, 1; black-backed gull, 4; herring gull, 94; ring-billed gull, 3; belted kingfisher, 2; rock dove, 4; hairy woodpecker, 2; downy woodpecker, 4; blue jay, 24; crow, 32; chickadee, 42; robin, 4; bluebird, 2; hermit thrush, 1; cedar waxwing, 12; starling, 37; English sparrow, 20; junco, 27; tree sparrow, 79; song sparrow, 6.

Total, 27 species; 506 individuals. — Chester Bowles, Jr.

48. Westport, Conn. (from town to point 3 miles south at Compo Beach and vicinity, back to woods, meadows, and roads 5 miles north of town; deciduous woods 50%, beach 25%, brushy meadows 15%, salt marsh 10%).-Dec. 27; 8 a.m. to 5 p.m. Partly overcast in a.m., clearing in p.m.; temp. 31° to 36°; wind WNW. 12-18 m.p.h.; ground covered with 2-in. snow with slight crust. Total hours, 12 (10 on foot, 2 by car); total miles, 35 (12 on foot, 23 by car). Four observers in 2 parties. Horned grebe, 4; black duck, 104; greater scaup, 73; Am. golden-eye, 24; buffle-head, 11; old-squaw, 7; white-winged scoter, 65 (est.); scoter (sp.?), 125: Am. merganser, 2; red-breasted merganser, 8; red-shouldered hawk, 1; great black-backed gull, 10; herring gull, 375 (est.); ring-billed gull, 15; rock dove, 10; snowy owl, 1 (seen by all observers on beach with 8x glasses at 50 ft.); hairy woodpecker, 1; downy woodpecker, 1; northern horned lark, 1; blue jay, 2; crow, 31; black-capped chickadee, 15; golden-crowned kinglet, 2; starling, 9; English sparrow, 25; meadowlark, 1; goldfinch, 8; slate-colored junco, 9; tree sparrow, 20; fox sparrow, 1; song sparrow, 1. Total, 30 species; 962 individuals. (Seen in area Dec. 25, 26, and 28: great blue heron, 1; ruffed grouse, 1; tufted titmouse, 2 [seen feeding on suet]; white-breasted nuthatch, 5; brown creeper, 1; purple grackle, 26 [one flock]; pine grosbeak, 8 [observed at 15 ft. with 8x glasses in a clump of cedars, 59s, 35sl; field sparrow, 1.) - Richard Novick, Richard Rogin, Richard Soffer, Aretas A. Saunders.

49. Amityville, L. I., N. Y. (center of village, west to Massapequa State Park, north to central part of park and Sunrise Highway, south to Great South Bay; woodland 50%, beach shore and salt marsh 30%, fields 10%, residential 10%).-Dec. 27; dawn to dusk. Cloudy in a.m., clearing in p.m.; temp. 34° to 40°; wind SW, 13-18 m.p.h., increasing to 25-38 m.p.h.; some snow on ground; tidal creeks and bay partly frozen, ponds completely frozen. Two observers together. Total hours, 101/2; total miles, 16 (on foot). Common loon, 1; great blue heron, 6; black-crowned night heron, 5; black duck, 9; green-winged teal, 3; scaup (sp. ?), 15; hooded merganser, 4; red-breasted merganser, 3; sharp-shinned hawk, 1; sparrow hawk, 2; great black-backed gull, 7; herring gull, 161; ring-billed gull, 21; belted kingfisher, 2; downy woodpecker, 3; blue jay, 14; crow, 57; black-capped chickadee, 61; brown creeper, 1; robin, 26; bluebird, 7; golden-crowned kinglet, 21; starling, 19; myrtle warbler, 10; English sparrow, 26; red-wing, 8; goldfinch, 14; junco, 12; tree sparrow, 45; white-throated sparrow, 1; fox sparrow, 3; song sparrow, 4. Total, 32 species; about 572 individuals.—W. O. Binkley, H. K. Chadwick.

50. Baldwin, L. I., N. Y. (little of the thickly inhabited part; town and suburbs 60%, salt marsh 15%, deciduous woodland 10%, ponds, streams, and bay 15%).-Dec. 30; 7 a.m. to 12 m., 1 to 5 p.m. Haze in a.m., overcast in p.m., turning to light rain; temp. 33° to 42°; wind NW veering to SE, 1-12 m.p.h.; ground covered with 2-4-in, crusted snow; water mostly open in ponds and bay. Five observers in 2 parties. Total hours, 9 (8 on foot, 1 by car going from place to place); total miles, 5 square. Great blue heron, 4; black-crowned night heron, 1; mute swan, 2; mallard, 34; black duck, 14; baldpate, 19; pintail, 10; shoveller, 8; greater scaup, 5; white-winged scoter, 15; red-breasted merganser, 5; Cooper's hawk, 2; marsh hawk, 1; sparrow hawk, 4; bob-white, 1; clapper rail, 1; coot, 5; great black-backed gull, 10; herring gull, 421; ring-billed gull, 3; rock dove, 14 (living on ledges of waterworks); downy woodpecker, 1; phoebe, 1; northern horned lark, 1; blue jay, 11; crow, 2; chick-adee, 6; brown creeper, 1; winter wren, 2; starling, 383; English sparrow, 91; meadowlark, 12; red-wing, 78; grackle, 3; evening grosbeak, 4; savannah sparrow, 3; junco, 6; tree sparrow, 94; field sparrow, 1; white-throated sparrow, 2; fox sparrow, 1; swamp sparrow, 14; song sparrow, 38. Total, 43 species; 1334 individuals. (Seen in area Dec. 27: evening grosbeak, 23.)

—Mrs. James Ritchie, Mr. and Mrs. Edwin Way Teale, Guy Coheleach, E. Morgan (Baldwin Bird Club).

51. Brooklyn, L. I., N. Y. (Prospect Park and Dyker Heights).-Dec. 23; dawn to dusk. Fair; temp. 12° to 20°; wind N veering to NW, 25 m.p.h.; ground covered with 8-in. snow. Total hours, 12. Greater scaup, 15; golden-eye, 2; red-breasted merganser, 12; sparrow hawk, 1; glaucous gull, 1 (imm., 1st year); Iceland gull, 1 (imm., 1st year); Kumlien's gull, 1 (observed at 40-50 ft. through 8x glasses for 5 min.; all marks noted - P.W.); great blackbacked gull, 112; lesser black-backed (?) gull, 1 (ad., dark mantle, slightly smaller than herring gull and much smaller than great blackbacked, with much smaller bill and lighter flight; probably too small to be a slaty-backed gull but possibly a western gull, as color of iris not noted - P.W.); herring gull, 2800; ring-billed gull, 94; European black-headed gull, 1 (seen at 50 ft. through 8x glasses for about an hour; red bill, dusky undersurfaces of primaries, white outer primaries tipped with black, etc. - M.J., P.W.); laughing gull, 1; Bonaparte's gull, 165; rock dove, 2; downy woodpecker, 4; blue jay, 6; crow, 15; chickadee, 10; white-breasted nuthatch, 8; creeper, 2; mockingbird, 1; starling, 200; English sparrow, 120; cardinal, 1; siskin, 1; junco, 23; tree sparrow, 4; white-throated sparrow, 20; fox sparrow, 2; song sparrow, 4. Total, 31 species; about 3630 individuals. (Gulls seen at Brooklyn sewerage outlet where all but the lesser black-backed are recorded annually.)-W. Ferguson, M. Jacobson, P. Wells.

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52. East Hampton, L. I., N. Y. (Mecox Bay, ponds and fields bordering ocean to shores of 3 Mile Harbor, farmland and scrub at Bridgehampton, Amagansett, Wainscott, woodland and shore of Gardiner's Bay from Acabonack to Springs).-Dec. 30; 4:30 a.m. to 5:30 p.m. Clear to partly overcast; crusted snow of varying depth, in part melted, but averaging 5-6 inches; ponds mostly frozen; wind light, variable, mainly SE; temp. circ. 36° min., 50° max, Seven observers in 3 separate groups. Loon, 9; red-throated loon, 5; horned grebe, 2; gannet, 2; great blue heron, 19; black-crowned night heron, 1; mute swan, 14; Canada goose, 250+; brant, 18; snow goose, 12; black duck, 350+; green-winged teal, 10; shoveller, 2; golden-eye, 50+; buffle-head, 4 (11 more just outside census area); old-squaw, 75+; Am. scoter, 16; white-winged scoter, 600+; surf scoter, 200+; hooded merganser, 2; Am. merganser, 10; red-breasted merganser, 26; sharpshinned hawk, 2; Cooper's hawk, 1; sparrow hawk, 5; bob-white, 7; pheasant, 2; Am. coot, 1; killdeer, 4; red-backed sandpiper, 1; sanderling, 1; glaucous gull, 1; black-backed gull, 160+; herring gull, 1150+; ring-billed gull, 54+; Bonaparte's gull, 3; dovekie, 1; rock dove, 50+; mourning dove, 1; screech owl, 1; snowy owl, 2; kingfisher, 5; flicker, 15; red-headed woodpecker, 1 (G.R. and W.H. 3rd); downy woodpecker, 7; phoebe, 1 (R.F., C.W., and W.S.); horned lark, 310+; prairie horned lark, at least 5; blue jay, 87+; crow, 80; blackcapped chickadee, 60+; white-breasted nuthatch, 3; long-billed marsh wren, 1; catbird, 2; robin, 43; golden-crowned kinglet, 2; cedar waxwing, 1; northern shrike, 2; starling, 350+; myrtle warbler, 141+; yellow palm warbler, 1 (W.T.H. 3rd); English sparrow, 380+; meadowlark, 47; red-wing, 31; rusty blackbird, 1 (W.T.H. 3rd); grackle, 2; cowbird, 151+; purple finch, 14; pine siskin, 11; goldfinch, 34; red-eyed towhee, 2; slate-colored junco, 75+; tree sparrow, 92; field sparrow, 1; whitethroated sparrow, 69+; fox sparrow, 17; swamp sparrow, 1; song sparrow, 27; Lapland long-spur, 6 (R.F., W.S., and C.W.); snow bunting, 16. Total, 80 species; about 5218 individuals. (Seen within same area 2 days later: mallard, 3; scaup, 200; marsh hawk, 2; short-eared owl, 1; hairy woodpecker, 1; red-breasted nuthatch, 3; bluebird, flock of 50; evening grosbeak, 1; pine grosbeak, 1; savannah sparrow, 1; coot, 18.)—Richard B. Fischer, W. T. Helmuth 3rd, W. T. Helmuth 4th, G. Ralston, Walton Sabin, F. P. Shepherd, Jr., Charles Wright.

53. Mastic and West Hampton Beach, L. I., N. Y. (tramping mainland, to edge of marsh and bay, at Mastic; to Westhampton Beach and to Brookhaven by car; tramping west end of Westhampton Beach to Moriches Inlet; most distant points [in Brookhaven and Westhamp-

ton l between 14 and 15 miles apart).-Dec. 30; 7:30 a.m. to 4:40 p.m. Thinly clouded over, hazy, becoming heavily overcast; temp. about 25° rising to 40° F.; no wind mostly, very light SSW later; about 2-in. crusted snow on ground; bay mostly frozen, with a few open stretches; creeks frozen, with a little open water at their heads. Common loon, 1; great blue heron, 8; Canada goose, flock of 25; black duck, 1000; surf scoter, 1 (kept hauling out on beach; likely oiled); (? red-breasted) merganser, 8; unidentified ducks, 200; bald eagle, 1; sparrow hawk, 1; sanderling, 2; great black-backed gull, 3; herring gull, 250; dovekie, 1 (on beach-oiled and weak); mourning dove, 1; snowy owl, 1 (Westhampton Beach); short-eared owl, 1; kingfisher, 1; hairy woodpecker, 3; downy woodpecker, 2; horned lark, 10; tree swallow, 1 (Mastic); blue jay, 8; crow, 12; chickadee, 15; white-breasted nuthatch, 3; Carolina wren, 2 (Mastic); catbird, 2 (Mastic); robin, 1; starling, 70; myrtle warbler, 25; house sparrow, 6; goldfinch, 6; junco, 5; tree sparrow, 35; whitethroated sparrow, 2; song sparrow, 3. Total, 35 species; about 1716 individuals.— J. T. and W. F. Nichols.

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54. Point Lookout to Short Beach, L. I., N. Y. (along Loop and Meadowbrook Parkways and adjacent area).—Dec. 26; 9:30 a.m. to 4:30 p.m. Cloudy; temp. 42° to 44°; wind E, 1-7 m.p.h.; patches of snow on ground. Three observers in 1 party. Total hours, 7 (on foot); total miles, 8 (on foot), Common loon, 5; great blue heron, 3; Am. bittern, 1; Canada goose, 28; mallard, 1; black duck, 50; pintail, 13; greater scaup, 22; old-squaw, 73; Am. scoter, 1; red-breasted merganser, 150 (est.); marsh hawk, 7; red-backed sandpiper, 3; sanderling, 30; black-backed gull, 50; herring gull, 1000 (est.); ring-billed gull, 23; rock dove, 15; kingfisher, 1; northern horned lark, 30; starling, 75 (est.); English sparrow, 50 (est.); meadowlark, 5; red-wing, 3; sharp-tailed sparrow, 3; tree sparrow, 5; song sparrow, 1. Total, 27 species; approximately 1648 individuals.-Robert De Mars, Leonard Grossman, John New.

55. Smithtown, L. I., N. Y. (T. J. White estate, Nissequogue River, Short and Long Beaches, Stony Brook Harbor, and Old Field Point; marsh 10%, fields 15%, wooded swamps 20%, woods 25%, shore 30%). - Dec. 22; 3:30 a.m. to 5 p.m. Overcast and hazy until 1 p.m., partly cloudy and hazy thereafter; light snow from 8:30 to 11 a.m.; L. I. Sound calm, but visibility poor, not exceeding 400 yds.; light NE breeze at dusk; smaller bodies of water mostly frozen; 6-in. snow on ground; temp. 14° at start, max. 24° at 3 p.m. Land birds actively searching for food. Four observers operating singly and in pairs. Total miles, 98 (75 by car, 23 on foot). Common loon, 2; horned grebe, 3; pied-billed grebe, 1; great blue heron, 1; blackcrowned night heron, 33; mute swan, 3; Canada goose, 16; mallard, 18; black duck, 404; gadwall,

3; European widgeon, 2; baldpate, 35; shoveller, 1; ring-necked duck, 40; greater scaup, 45; lesser scaup, 4; Am. golden-eye, 73; buffle-head, 1; old-squaw, 85; Am. eider, 5; Am. scoter, 13; white-winged scoter, 482; surf scoter, 49; ruddy duck, 1; hooded merganser, 9; Am. merganser, 26; red-breasted merganser, 70; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; ring-necked pheasant, 1; coot, 6; greater vellowlegs, 1; black-backed gull, 8; herring gull, 945; ring-billed gull, 9; screech owl, 3; great horned owl, 1; long-eared owl, 1; belted kingfisher, 1; flicker, 3; hairy woodpecker, 13; downy woodpecker, 28; phoebe, 1 (studied at close range-W.S.); northern horned lark, 65; blue jay, 23; crow, 291; fish crow, 3; black-capped chickadee, 59; white-breasted nuthatch, 12; winter wren, 7; Carolina wren, 1; catbird, 1; robin, 9; hermit thrush, 2; bluebird, 12; golden-crowned kinglet, 5; Am. pipit, 1; starling, 85; myrtle warbler, 4; English sparrow, 37; meadowlark, 1; rusty blackbird, 5; cardinal, 3; purple finch, 1; goldfinch, 24; slate-colored junco, 58; tree sparrow, 48; field sparrow, 3; white-throated sparrow, 46; swamp sparrow, 9; song sparrow, 56; snow bunting, 1. Total, 73 species; 3323 individuals. Fresh tracks of bob-white seen in snow.— Richard B. Fischer, G. Ralston, Robert Ralston, Walton Sabin.

56. Western Long Island, N. Y. (Flushing Bay to North Hills, Whitestone to Atlantic Beach; suburban New York City 30%, Atlantic Ocean coast 1%, coastal marshes 20%, freshwater lake 4%, deciduous woods 10%, evergreen woods 5%, open fields 10%).-Dec. 22; dawn to dusk. Overcast; temp. 15° to 30°; ground covered with 6-in, frozen snow; marshes and fresh-water lake frozen. Sixteen observers in 7 parties. Total hours, 60 (2 by car); total miles, 53 (6 by car). Common loon, 12; red-throated loon, 1; horned grebe, 2; double-crested cormorant, 8; great blue heron, 16; black-crowned night heron, 23; mute swan, 2; Canada goose, 1; mallard, 337; black duck, 1150; European widgeon, 3; baldpate, 202; pintail, 52; European teal, 1; green-winged teal, 12; wood duck, 2; canvas-back, 124; greater scaup, 1000; lesser scaup, 3; golden-eye, 112; buffle-head, 17; oldsquaw, 1; white-winged scoter, 15; Am. scoter, 4; ruddy duck, 3; Am. merganser, 170; redbreasted merganser, 185; goshawk, 1; sharpshinned hawk, 3; red-tailed hawk, 3; red-shouldered hawk, 1; rough-legged hawk, 2; marsh hawk, 1; gyrfalcon, 1; sparrow hawk, 10; ringnecked pheasant, 4; killdeer, 4; black-bellied plover, 1; purple sandpiper, 18; red-backed sandpiper, 1; sanderling, 31; glaucous gull, 1; great black-backed gull, 157; herring gull, 6000; ringbilled gull, 26; rock dove, 6; mourning dove, 1; barn owl, 1; screech owl, 5; great horned owl, 1; snowy owl, 1; long-eared owl, 3; saw-whet owl, 2; kingfisher, 3; flicker, 1; hairy woodpecker, 4; downy woodpecker, 27; northern horned lark, 55; prairie horned lark, 3; blue

jay, 33; crow, 43; fish crow, 2; black-capped chickadee, 61; red-breasted nuthatch, 1; whitebreasted nuthatch, 13; brown creeper, 3; winter wren, 2; robin, 9; hermit thrush, 1; goldencrowned kinglet, 10; ruby-crowned kinglet, 3; pipit, 1; cedar waxwing, 1; migrant shrike, 1; starling, 2250; myrtle warbler, 2; English sparrow, 56; red-wing, 8; rusty blackbird, 3; grackle, 6; cowbird, 4; purple finch, 10; pine siskin, 2; goldfinch, 34; towhee, 1; savannah sparrow, 1; evening grosbeak, 9; junco, 220; tree sparrow, 52; field sparrow, 5; white-throated sparrow, 68; fox sparrow, 1; swamp sparrow, 11; song sparrow, 44; Lapland longspur, 1; snow bunting, 30. Total, 96 species; 12,838 individuals.-Richard H. Adelson, William O. Astle, William R. Astle, E. M. Astle, Herman Bohn, John L. Bull, Jr., Lester K. Hutton, Thomas Imhof, George Komorowski, Robert C. McCabe, Norbert D. McCabe, William W. Reid, Margaret A. Latsha, Mrs. L. W. Smith, Mr. and Mrs. W. W. Reid (Queens County Bird Club).

57. Amsterdam, N. Y. (Sassafras Bird Sanctuary, along Mohawk River west half of city, and Northampton Road; mixed woodland 60%, river 25%, open land 5%, town suburbs 10%).-Dec. 20; 7:30 a.m. to 4:30 p.m. Overcast until 11 a.m.; wind NW, 19-24 m.p.h.; temp. 15°-25° F.; ground covered with 6-in, loose snow; water open in river, frozen in creeks. Two observers together. Total hours, 8 (on foot); total miles, 13 (on foot). Am. merganser, 7; pheasant, 1; herring gull, 11; kingfisher, 1; flicker, 2; hairy woodpecker, 3; crow, 9; black-capped chickadee, 5; white-breasted nuthatch, 11; starling, 421; English sparrow, 620; evening grosbeak, 14; goldfinch, 20; slate-colored junco, 31. Total, 14 species; 1156 individuals.-Howard and Jack Hallenbeck (Sassafras Bird Club).

58. Bronx-Westchester Region, N. Y. (northern Bronx and lower Westchester counties as far as Irvington, Scarsdale, and Rye).-Dec. 30. Fair; strong NW wind; temp. 7° to 24°; 14-in. snow on ground; nearly all fresh water frozen. Thirty-five observers in 6 parties. Total hours, 63 (20 in car, 43 on foot); total miles, 48 (17 in car, 31 on foot). Common loon, 2; red-throated loon, 1; Holboell's grebe, 1; horned grebe, 2; European cormorant, 1; double-crested cormorant, 1; cormorant (unidentified), 4; great blue heron, 7; black-crowned night heron, 30; Am. bittern, 2; Canada goose, 6; mallard, 74; black duck, 1180 (est.); baldpate, 9; pintail, 1; green-winged teal, 2; shoveller, 1; canvas-back, 44; greater scaup, 6000 (est.); Am. golden-eye, 637; buffle-head, 17; old-squaw, 60; white-winged scoter, 500 (est.); surf scoter, 60; Am. scoter, 1; hooded merganser, 3; Am. merganser, 145; red-breasted merganser, 243; goshawk, 2; Cooper's hawk, 4; red-tailed hawk, 15; redshouldered hawk, 7; rough-legged hawk, 1; bald eagle, 4; marsh hawk, 4; duck hawk, 3; sparrow hawk, 8; ring-necked pheasant, 47; killdeer, 6;

Wilson's snipe, 1; purple sandpiper, 62 (twice number previously recorded); black-backed gull. 41; herring gull, 10,350 (est.); ring-billed gull, 3: Bonaparte's gull, 10; rock dove, 120; mourning dove, 2; barn owl, 4; screech owl, 2; great horned owl, 1; snowy owl, 4; barred owl, 1; long-eared owl, 15 (13 in one pine grove); short-eared owl, 2; saw-whet owl, 1; belted kingfisher, 1; flicker, 2; hairy woodpecker, 14; downy woodpecker, 40; horned lark, 18; blue jay, 43; crow, 175 (est.); fish crow, 3; blackcapped chickadee, 192; tufted titmouse, 4; whitebreasted nuthatch, 41; red-breasted nuthatch, 3; brown creeper, 5; winter wren, 6; robin, 12; hermit thrush, 2; bluebird, 1; golden-crowned kinglet, 2; cedar waxwing, 13; starling, 3140 (est.); myrtle warbler, 2; English sparrow, 595 (est.); meadowlark, 1; red-wing, 1; cowbird, 3; cardinal, 2; purple finch, 8; redpoll, 1; pine siskin, 6; goldfinch, 83; savannah sparrow, 3; sharp-tailed sparrow, 1; vesper sparrow, 1; slatecolored junco, 288; tree sparrow, 165; field sparrow, 2; white-throated sparrow, 80; fox sparrow, 15; swamp sparrow, 6; song sparrow, 90; snow bunting, 10. Total, 95 species; approximately 24,834 individuals. (Seen in area Dec. 29; grackle, 1; pine grosbeak, 1.) - Mr. and Mrs. J. L. Bull, Jr., J. Clark, A. Cruickshank, H. Darrow, R. DeMars, E. Eisenmann, H. Feinberg, R. Fischer, R. Gershon, L. Grossman, S. Harriot, D. Heller, R. Herbert, I. Kassoy, J. Kieran, G. Komorowski, R. Nagler, A. Peck, J. Persico, W. Pfeiffer, W. Pieczur, R. Pough, G. Ralston, R. Ralston, R. Rogin, W. Sabin, R. Soffer, J. Stegle, A. Thomas, J. Tiffany, L. Walsh, W. Weinstein, I. Werner, H. Young.

59. Buffalo, N. Y. (centering on Grand Island, including Niagara River and adjacent areas; open farmland 40%, deciduous woods 20%, Buffalo Harbor and Niagara River 20%, city, suburban, and factory areas 12%, parks 5%, cattail marshes 3%).—Dec. 23. Clear to partly cloudy; temp. 10° to 15° F.; wind NNE, 10 m.p.h.; 12-in. snow; creeks, ponds, and harbor frozen, ice bridge in gorge at falls. Twenty-three observers in 7 parties. Total hours, 56 (30 on foot); total miles, 225 (54 on foot). Common loon, 1; double-crested cormorant, 1; great blue heron, 1; black-crowned night heron, 1; mallard, 251; black duck, 448; baldpate, 3; pintail, 1; redhead, 9; canvas-back, 210; greater and lesser scaup, 848; Am. golden-eye, 3069; buffle-head, 112; old-squaw, 166; hooded merganser, 1; Am. merganser, 526; red-breasted merganser, 170; red-tailed hawk, 12; rough-legged hawk, 11; sparrow hawk, 18; pheasant, 170; purple sandpiper, 1; glaucous gull, 3; great black-backed gull, 93; herring gull, 2368; ring-billed gull, 5; Bonaparte's gull, 75; mourning dove, 23; great horned owl, 2; snowy owl, 1; barred owl, 2; long-eared owl, 4; short-eared owl, 5; redheaded woodpecker, 2; hairy woodpecker, 10; downy woodpecker, 28; blue jay, 15; crow, 125; black-capped chickadee, 193; white-breasted

nuthatch, 23; brown creeper, 10; northern shrike, 5; starling, 505; English sparrow, 875; meadowlark, 1; cardinal, 9; goldfinch, 3; slate-colored junco, 20; tree sparrow, 85; song sparrow, 1; snow bunting, 1. Total, 52 species; 10,522 individuals. (Seen in area Dec. 30: horned grebe, 1; green-winged teal, 1.) — R. Andrle, W. W. Brockner, J. Doyle, R. Drobits, Lt. H. Dugan, R. Feinsinger, J. Filor, G. Grotke, W. Heingartner, N. Keim, H. D. Mitchell, L. Murphy, B. Nathan, W. Rogerson, J. Savage, A. Schaffner, E. Seeber, W. Vaughan, R. Verrill, R. Wagner, E. Windsor, A. J. Wright, J. Youker (Buffalo Ornithological Society).

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60. Central Park, New York City, N. Y. (59th to 110th Sts.).—Dec. 30; 8:15 a.m. to 4:15 p.m. Overcast; temp. 34° to 41° F.; wind SSW, 1-7 m.p.h.; ground covered with 3-in. snow; lakes frozen, reservoir open. Total hours, 8 (on foot); total miles, 8 (on foot). Common loon, 1; Am. golden-eye, 1; Am. merganser, 42; duck hawk, 1; sparrow hawk, 3; great blackbacked gull, 3; herring gull, 580; flicker, 1; hairy woodpecker, 2; downy woodpecker, 6; blue jay, 2: black-capped chickadee, 11; white-breasted nuthatch, 2; robin, 1; starling, 93; English sparrow, 475; bronzed grackle, 1; cardinal, 3; slatecolored junco, 8; tree sparrow, 7; white-throated sparrow, 9; fox sparrow, 3; song sparrow, 12. Total, 23 species; 1267 individuals. (Seen in area Dec. 23: canvas-back, 2.)-Geoffrey Carleton.

61. Cortland, N. Y. (Tioughnioga River, south end of Skaneateles Lake, Little York Lake, Gracie and Lake Como swamps, marl ponds, garbage dump, waterworks; lakes, ponds, river, and garbage dump 10%, cultivated farmland 10%, semiopen country, frequently pastured, with scattered trees, open groves, little patches of woods and thickets of many kinds, little bogs, marshy places, streams, and other habitats in small scattered patches 45%, mixed woodland, mostly unpastured and swampy, from young second growth to mature 35%).-Dec. 28; 7 a.m. to 5:30 p.m. Partly cloudy; 9-in. snow on ground; water mostly open; calm in a.m., E wind in p.m., 5-10 m.p.h.; temp. 22° to 34° F Seven observers in 3 parties. Total hours, 24 (20 on foot, 4 by car); total miles, 105 (20 on foot, 85 by car). Black duck, 7; canvas-back, 275; greater scaup, 125; Am. golden-eye, 6; Am. merganser, 19; ruffed grouse, 8; pheasant, 8; glaucous gull, 1; great black-backed gull, 1; herring gull, 87; screech owl, 1; great horned owl, 3; kingfisher, 1; pileated woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 8; blue jay, 18; crow, 115; black-capped chickadee, 92; white-breasted nuthatch, 12; brown creeper, 8; winter wren, 1; northern shrike, 2; starling, 127; English sparrow, 52; evening grosbeak, 3; pine grosbeak, 8; goldfinch, 2; tree sparrow, 87. Total, 29 species; 1081 individuals.— Harold H. Axtell, Rachel C. Axtell, James Bean, Merton Bean, Robert Bean, James T. Tanner, Nancy B. Tanner.

62. Fort Plain, N. Y. (Mohawk River, Abeel Island, valleys of Oak, Otsquago, and Otstungo creeks; mixed deciduous and coniferous woods 60%, river swamps and flats 20%, open farmland 20%).—Dec. 29; 7:30 a.m. to 6 p.m. Cloudy; temp. 32° to 30°; wind SE, 1-7 m.p.h.; 14-in. snow; all water frozen. Total hours, 101/2 (on snowshoes); total miles, 14 (on snowshoes). Pheasant, 3; great horned owl, 1; pileated woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 7; blue jay, 6; crow, 1; black-capped chickadee, 40; white-breasted nuthatch, 3; starling, 38; English sparrow, 31; tree sparrow, 14. Total, 12 species; 149 individuals. (Fresh tracks of 2 ruffed grouse. Seen in area Dec. 27: pine grosbeak, 1.)—Douglas Ayres, Jr.

63. Geneva, N. Y. (area bounded by Junius on north, east side of Seneca Lake on east, Kashong on south, and west line of city on west; open farmland 50%, town suburbs 10%, mixed woods 25%, lake 15%).—Dec. 30. Cloudy, trace of rain in a.m.; temp. 40° at start, 42° at return; wind S, 25 m.p.h.; ground covered with snow; water frozen except Seneca Lake. Fourteen observers in 9 parties (3 observers watched feeding stations all day). Total hours, 31 (211/2 on foot, 91/2 by car); total miles, 541/2 (171/2 on foot, 37 by car). Horned grebe, 25; mallard, 17; black duck, 105; redhead, 2800 (est.); canvas-back, 56; greater and lesser scaup, 1200 (est.); Am. golden-eye, 47; buffle-head, 1; Am. merganser, 34; red-breasted merganser, 3; Cooper's hawk, 2; red-tailed hawk, 2; pheasant, 5; coot, 2; great black-backed gull, 1; herring gull, 84; ring-billed gull, 2; rock dove, 80; barn owl, 1; great horned owl, 1; flicker, 2; hairy woodpecker, 6; downy woodpecker, 13; blue jay, 11; crow, 860; blackcapped chickadee, 69; white-breasted nuthatch, 17; brown creeper, 8; golden-crowned kinglet, 2; starling, 290; English sparrow, 210; cardinal, 4; goldfinch, 2; slate-colored junco, 7; tree sparrow, 17; swamp sparrow, 3; song sparrow, 7; snow bunting, 2. Total, 39 species; 5998 individuals. (Seen in area during week previous to census; pileated woodpecker, snowy owl.)-Loren Ward, Bernard Devaney, Ethel Murden, Mae Guinan, C. Sealey Peck, E. H. Wheeler, Sr., E. H. Wheeler, Jr., Stephen Eaton, Eugene Heckman, Mrs. Arthur Laclare, Mrs. Frank McGuire, Rose Murphy, Mr. and Mrs. O. F. Fanson (Eaton Bird Club).

64. Jamestown, N. Y. (from center of town to points north and northeast; east bank of outlet from Jamestown to Fluvanna and back; 2 miles south of Frewsburg along Conewango River; open farmland 10%, town suburbs 15%, woods 50%, pine groves 5%, rivers and creeks 20%.)—Dec. 27; 8:30 a.m. to 5:30 p.m. Cloudy with snow flurries until noon; clear in p.m.; 3-5-in. crusted snow; all water frozen except parts of the outlet and Conewango River. Five observers in 3 parties, Total hours, 24 (on foot); total miles, 27 (on

foot). Mute swan, 1; mallard, 1; ruffed grouse, 1; pheasant, 13; rock dove, 1; screech owl, 1; pileated woodpecker, 2; downy woodpecker, 10; hairy woodpecker, 5; blue jay, 5; black-capped chickadee, 25; white-breasted nuthatch, 8; brown creeper, 5; starling, 77; goldfinch, 35; pine siskin, 2; English sparrow, 63; tree sparrow, 159; song sparrow, 1. Total, 19 species; 415 individuals. (Dec. 26: red-breasted nuthatch, 1.)—John Nelson, Alan Van Why, Philip Lenna, Dick Lenna, Roger Sundell (at feeding stations all day), Robert Sundell (members Chautauqua Bird Club).

65. Port Chester, N. Y. (Rye and White Plains to Stamford, Conn., Manursing Island, Rye and Kensico lakes, Audubon Nature Center, etc.).- Dec. 23; dawn to dusk. Cloudy; temp. 3° to 26° F.; wind 15-20 m.p.h.; ground covered 13-in. powdery snow; all ponds and arms of larger lakes frozen. Eleven observers in 6 parties. Total hours, 44 (29 on foot): total miles, 136 (38 on foot). Common loon, 1; red-throated loon, 1; horned grebe, 9; great blue heron, 14; black-crowned night heron, 2; mute swan, 5; Canada goose, 21; mallard, 320; black duck, 600; ring-necked duck, 27; greater scaup, 2000; Am. golden-eye, 95; buffle-head, 12; old-squaw, 6; white-winged scoter, 90; surf scoter, 4; ruddy duck, 1; hooded merganser, 9; Am. merganser, 52; red-breasted merganser, 57; accipiter, 1 (sp. ?); red-tailed hawk, 4; red-shouldered hawk, 2; broad-winged hawk, 1 (R.L.B., M.O. and J.M.) [no further details-Ed.]; sparrow hawk, 2; pheasant, 7; clapper rail, 1; coot, 2; purple sandpiper, 12; black-backed gull, 4; herring gull, 1200; rock dove, 17; mourning dove, 14; barn owl, 1; snowy owl, 2; barred owl, 2; long-eared owl, 2; belted kingfisher, 2; hairy woodpecker, 8; downy woodpecker, 22; horned lark, 10; blue jay, 51; crow, 115; black-capped chickadee, 148; white-breasted nuthatch, 30; brown creeper, 1; winter wren, 1; robin, 33; hermit thrush, 1; bluebird, 19; golden-crowned kinglet, 2; cedar waxwing, 30; starling, 480; myrtle warbler, 10; English sparrow, 200; meadowlark, 1; red-wing, 4; cowbird, 1; cardinal, 2; evening grosbeak, 4; purple finch, 4; goldfinch, 17; junco, 170; tree sparrow, 190; white-throated sparrow, 47; fox sparrow, 5; song sparrow, 46; snow bunting, 14. Total, 68 species; about 6268 individuals.—Richard L. Burdsall, Mr. and Mrs. John W. Davidson, John Moxhay, Michael Oboiko, Anne Orth, John Orth, P. Cecil Spofford, Richard L. Weaver, Mr. and Mrs. Wm. Bolton Cook.

66. Rochester, N. Y. (lake shore from Rigney's Bluff to Irondequoit Bay outlet, Durand Park, Tryon Park, Ellison Park, Corbett's Glen, Highland Park, Municipal Airport, Reed Road swamp; mixed woodland 40%, lake shore 30%, open farmland 10%, cattail marsh 10%, town suburbs 10%).—Dec. 23; 8 a.m. to 5 p.m. Partly cloudy, snow flurries in early morning; temp. 10° to 13° F.; wind NW, 8-12 m.p.h.; 8-12-in.

crusted snow on ground; ponds and marshes frozen, lake open with thick shore ice. Nineteen observers in 10 parties. Total hours, 42; total miles, 42. Red-throated loon, 1; pied-billed grebe, 1; mallard, 27; black duck, 58; greater and lesser scaup, 156; Am. golden-eye, 112; buffle-head, 2; old-squaw, 23; eider, 1 (9, sp. ?-G.M.M.); white-winged scoter, 2; Am. merganser, 13; red-breasted merganser, 4; Cooper's hawk, 1; red-tailed hawk, 1; rough-legged hawk. 3; sparrow hawk, 2; pheasant, 42; black-backed gull, 5; herring gull, 976; ring-billed gull, 36; Bonaparte's gull, 3; great horned owl, 3; snowy owl, 1; short-eared owl, 1; belted kingfisher, 1; hairy woodpecker, 9; downy woodpecker, 13; blue jay, 2; crow, 36; black-capped chickadee, 112; white-breasted nuthatch, 3; red-breasted nuthatch, 1; brown creeper, 11; winter wren, 1; Carolina wren, 1(daily at feeding station past 2 weeks); mockingbird, 2 (daily at feeding station past 3 weeks); golden-crowned kinglet, 5; northern shrike, 1; starling, 330; English sparrow, 195; cardinal, 14; pine grosbeak, 2; slatecolored junco, 19; tree sparrow, 28; song sparrow, 6. Total, 46 species; 2266 individuals .-James Barlow, Albert Bussewitz, Vere Chappell, W. L. G. Edson, Robert Folker, J. D. French. Wade Gayer, J. Gramlich, Richard Horsey, David McGregor, G. M. Meade, H. G. Miller, Francis Orcutt, L. H. Paul, Thomas Rowe, O. F. Schaeffer, Robert Somers, Leo Tanghe, J. W. Taylor (Genesee Ornithological Society).

67. Schenectady, N. Y. (same overall area as in 1930 and subsequent counts, but differing from 1944 area by omission of Albany sections and reinclusion of Saratoga County side of Mohawk River; urban and suburban 5%, farmyards 5%, open farmland 40%, light deciduous woods 20%, mixed deciduous and evergreen woods 10%, brush hillsides and ravines 10%, cattail marshes 10%).-Dec. 23; 7 a.m. to 4:15 p.m. Clear; temp. 1° to 19°; wind W veering to NW, 5 m.p.h. at start, increasing to 30 m.p.h. and drifting snow in afternoon; 6-8-in. old snow; minimum of open water. Twenty-six observers in 8 parties, plus urban and suburban records. Total hours, 45 (35 on foot, 10 by car); total miles, 148 (42 on foot, 106 by car). Black duck, 5; Am. merganser, 3; goshawk, 1; red-tailed hawk, 1; sparrow hawk, 1; ring-necked pheasant, 31; screech owl, 2; snowy owl, 2; barred owl, 1; kingfisher, 1; hairy woodpecker, 8; downy woodpecker, 22; northern horned lark, 1; blue jay, 39; crow, 542; black-capped chickadee, 150; white-breasted nuthatch, 21; brown creeper, 10; winter wren, 1; robin, 1; starling, 227; English sparrow, 267; evening grosbeak, 19; redpoll, 27; goldfinch, 2; slate-colored junco, 6; tree sparrow, 170; song sparrow, 3; snow bunting, 15. Total, 29 species; 1579 individuals.—Malcolm Andrews, Pauline E. Baker, Guy Bartlett, William G. Bartlett, George H. Bainbridge, Mrs. W. E. Blowney, Mr. and Mrs. Frank Freese, Esly Hallenbeck, Idella M. Heacox, Alice Holmes, Mrs. H. G. Kelley, B. D. Miller, Mr. and Mrs. Chester N. Moore, Edward Rindfleisch, Vincent J. Schaefer, Minnie B. Scotland, Mrs. E. W. Scott, Robert L. Stone, Rudolph H. Stone, Beatrice Sullivan, Nelle G. Van Vorst, Mr. and Mrs. John L. Voght, Laura S. Beck (Schenectady Bird Club).

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68. Staten Island, N. Y. (representative sections in all parts of the island). - Dec. 23; 7 a.m. to 5:15 p.m. Clear; ground covered with 8-12-in. snow; wind 25 m.p.h., NW; temp. 9° at start, 24° at noon, falling in late afternoon. Observers separate, covering about 30 miles on foot and an equal distance by automobile. Horned grebe, 16; black-crowned night heron, 1; black duck, 468; canvas-back, 1; scaup, 3061 (partly est.); Am. golden-eye, 6; buffle-head, 19; old-squaw, 16; hooded merganser, 1 (Redjives); sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 1; red-shouldered hawk, 4; rough-legged hawk, 2; marsh hawk, 4; sparrow hawk, 2; ring-necked pheasant, 2; great black-backed gull, 12; herring gull, 6329 (partly est.); ring-billed 1; Bonaparte's gull, 100; mourning dove, 2; snowy owl, 3; hairy woodpecker, 1; downy woodpecker, 5; phoebe, 1 (Cleaves, who watched bird at close range many minutes while it made sorties for food to surface of small pool surrounded by deep snow); horned lark, 20; blue jay, 1; crow, 48; blackcapped chickadee, 27; white-breasted nuthatch, 6; robin, 9; pipit, 2; starling, 393; English sparrow, 52; red-wing, 1; cardinal, 18; pine siskin, 5 (Astle); goldfinch, 22; Ipswich sparrow, 1 (Cleaves); savannah sparrow, 1; slate-colored junco, 87; tree sparrow, 129; white-throated sparrow, 18; fox sparrow, 1; swamp sparrow, 5; song sparrow, 30. Total, 47 species; approximately 10,938 individuals. (Bald eagle, great blue heron reported from Tottenville, Dec. 24; barn owl found dead in snow, Dec. 25.)-William A. Astle, Howard Cleaves, Lee A. Ellison, Casimir F. Redjives, George B. Wilmott.

69. Watertown, N. Y. (a circle not exceeding a 15-mile diameter with Public Square the center: deciduous woodland 14%, country roads 25%, open farmland 25%, streets 7%, river banks 7%, park 8%).—Dec. 23. Clear; temp. -10° to 4°; no wind; deep snow (89 in. so far this winter); water frozen. Twelve observers (3 pairs, the rest singly). Total hours, 15; total miles, 28½ (on foot, snowshoes, or skis). Am. rough-legged hawk, 1; ruffed grouse, 5; ringnecked pheasant, 9; glaucous gull, 2; herring gull, 44; rock dove, 31; snowy owl, 3; hairy woodpecker, 7; downy woodpecker, 3; blue jay, 11; black-capped chickadee, 27; white-breasted nuthatch, 2; red-breasted nuthatch, 1; starling, 146; English sparrow, 17; cardinal, 1; evening grosbeak, 1; pine grosbeak, 1; goldfinch, 1; tree sparrow, 3; snow bunting, 40. Total, 21 species; 356 individuals.-F. Clinch, Dorothy Clinch, A. Stevens, Mr. and Mrs. R. H. Taylor, S. Simpson, Eb Grant, Lucille Grant, Erma Schell,

Faith Common, L. Fitsimmons, Mrs. J. A. Common.

70. Barnegat, N. J. (approximately same area as in previous counts; salt marsh 40%, bay and beach 40%, upland 20%).-Dec. 30; 6 a.m. to 5:30 p.m. Fair in morning, overcast in afternoon; temp. 32° to 40° F.; wind SE-13-18 m.p.h.; all fresh water and part of bay frozen; ground bare. Six observers in 3 parties. No boats used. Total miles, 30 (on foot). Common loon, 3; red-throated loon, 1; horned grebe, 7; great blue heron, 13; Am. bittern, 1; Canada goose, 100; Am. brant, 350; black duck, 100; wood duck, 2; scaup (sp. ?), 325; Am. goldeneye, 325; buffle-head, 40; old-squaw, 110; whitewinged scoter, 2; Am. scoter, 3; Am. merganser, 2; red-breasted merganser, 350; turkey vulture, 1; sharp-shinned hawk, 1; red-tailed hawk, 2; rough-legged hawk, 5; bald eagle, 2; marsh hawk, 8; sparrow hawk, 4; clapper rail, 1; blackbellied plover, 8; turnstone, 1; purple sandpiper, 1; red-backed sandpiper, 400; sanderling, 40; great black-backed gull, 35; herring gull, 500; ring-billed gull, 60; Bonaparte's gull, 3; mourning dove, 1; great horned owl, 1; snowy owl, 1: flicker, 1; downy woodpecker, 3; horned lark, 40; blue jay, 11; raven, 1 (at close range directly overhead); crow, 50; Carolina chickadee, 30; tufted titmouse, 3; brown creeper, 2; robin, 33; bluebird, 10; golden-crowned kinglet, 10; Am. pipit, 14; starling, 200; myrtle warbler, 75; English sparrow, 125; meadowlark, 19; red-wing, 13; cardinal, 5; pine siskin, 125; goldfinch, 15; Ipswich sparrow, 3; savannah sparrow, 2; sharptailed sparrow, 2; seaside sparrow, 3; slate-colored junco, 20; tree sparrow, 180; white-throated sparrow, 10; song sparrow, 15; snow bunting, 15. Total, 67 species; about 3844 individuals. (Found dead: Am. eider, 13; snowy owl, 2; woodcock, 1.)—David Black, Eugene Eisenmann, Donald Kunkle, George M. Seeley, Hobart M. Van Deusen, Lester L. Walsh.

71. Boonton, N. J. (an area not exceeding a 15-mile diameter, similar to that covered since 1942; deciduous woodland 30%, open marsh wooded swamp 30%, pastureland 15%, miscellaneous 15%).-Dec. 23; 7 a.m. to 6 p.m. Clear, cloudless; visibility excellent; reservoir and lakes frozen, rivers frozen except the highly polluted Whippany and its immediate drainage outlet into the Rockaway and Passaic; water levels about normal; ground and marshes frozen; snow blanket average 8 in.; snow drifting steadily to drifts over 2 ft.; wind NW, 10-35 m.p.h.; temp. 10° to 20°. Sixteen observers in 5 parties. Total hours afield, 50 (30 on foot, 15 in car, 5 in boat); total party miles, 150 (35 on foot, 107 by car, 8 by boat). Mallard, 27; black duck, 371; baldpate, 3; pintail, 7; Am. merganser, 15; sharp-shinned hawk, 3; Cooper's hawk, 1; red-tailed hawk, 6; red-shouldered hawk, 4; rough-legged hawk, 1; bald eagle, 1; marsh hawk, 1; sparrow hawk, 2; pheasant, 2; killdeer, 1; short-eared owl, 1; kingfisher, 2; hairy woodpecker, 10; downy woodpecker, 40; horned lark, 50; blue jay, 71; crow, 340; black-capped chickadee, 156; tufted titmouse, 36; white-breasted nuthatch, 24; brown creeper, 9; winter wren, 5; robin, 2; golden-crowned kinglet, 4; starling, 796; English sparrow, 170; red-wing, 3; rusty blackbird, 18; cowbird, 1; cardinal, 26; evening grosbeak, 32; goldfinch, 48; towhee, 1 (H.B.P. feeding station); junco, 109; tree sparrow, 405; white-throated sparrow, 8; swamp sparrow, 4, song sparrow, 56; Lapland longspur, 1; snow bunting, 1. Total, 45 species; 2874 individuals.—G. Ajello, L. Ajello, J. Boldtman, C. D. Brown, R. Burkhart, T. Butler, J. L. Edwards, S 1/c R. Hagar, D. Kunkle, J. Mann, R. Murray, N. Noisi, H. B. Pitcher, Lt. L. Sanford, Capt. D. Schaeffer, F. P. Wolfarth (members and guests, Urner Ornithological Club).

72. Cape May, N. J. (71/2-mile radius from Rio Grande, Cape May County; salt marsh 30%, woodland 30%, cultivated land 30%, sand beach 10%).-Dec. 23. Clear; temp. 10° at start, 12° at return; wind NW, 19-24 m.p.h.; ground covered with 5-in. snow; salt marshes frozen. Thirty-one observers in 9 parties. Total hours, 248 (238 on foot, 10 by car); total miles, 440 (340 on foot, 100 by car). Common loon, 7; red-throated loon, 10; horned grebe, 3; doublecrested cormorant, 34; great blue heron, 24; little blue heron, 2 (imm.); black-crowned night heron, 10; Am. bittern, 1; Canada goose, 44; brant, 612; mallard, 5; black duck, 2177; pintail, 3; green-winged teal, 1; redhead, 1; canvasback, 3; scaup, 219; golden-eye, 44; buffle-head, 28; old-squaw, 651; king eider, 1 (D.R.C. and W.M.); white-winged scoter, 2; Am. scoter, 11; ruddy duck, 3; Am. merganser, 1; red-breasted merganser, 127; turkey vulture, 241; sharp-shinned hawk, 4; Cooper's hawk, 8; red-tailed hawk, 3: red-shouldered hawk, 5; rough-legged hawk, 3; bald eagle, 7; marsh hawk, 55; duck hawk, 1; pigeon hawk, 1; sparrow hawk, 4; bob-white, 27; Virginia rail, 3 (N.J.McD., P.A.L., and M.R.); killdeer, 3; black-bellied plover, 3; woodcock, 2; Wilson's snipe, 6; purple sandpiper, 8; red-backed sandpiper, 1223; western sandpiper, 7; sanderling, 184; great black-backed gull, 14; herring gull, 5137; ring-billed gull, 171; Bonaparte's gull, 31; razor-billed auk, 1 (J.K.P. et al.); dovekie, 1 (D.R.C. and W.M.); mourning dove, 50; snowy owl, 1; short-eared owl, 2; kingfisher, 5; flicker, 6; red-bellied woodpecker, 1 (J.M.C., J.A.Jr., and W.C.); hairy woodpecker, 4; downy woodpecker, 26; horned lark, 698; tree swallow, 4; blue jay, 5; crow, 2330; fish crow, 22; Carolina chickadee, 124; tufted titmouse, 26; brown creeper, 2; winter wren, 3; Carolina wren, 7; mockingbird, 6; brown thrasher, 3; robin, 152; hermit thrush, 13; bluebird, 118; golden-crowned kinglet, 17; rubycrowned kinglet, 1; Am. pipit, 3; migrant shrike, 1; starling, 762; myrtle warbler, 898; English sparrow, 307; meadowlark, 135; red-wing, 1945; rusty blackbird, 206; purple grackle, 385; cow-

bird, 535; cardinal, 33; evening grosbeak, 10: purple finch, 9; pine siskin, 1; goldfinch, 213; towhee, 2; Ipswich sparrow, 1; savannah sparrow, 32; sharp-tailed sparrow, 4; seaside sparrow, 1; vesper sparrow, 13; slate-colored junco, 501; tree sparrow, 960; field sparrow, 7; whitethroated sparrow, 91; fox sparrow, 39; swamp sparrow, 2; song sparrow, 82; snow bunting, 7. Total, 107 species; approximately 21,987 individuals.-Norman J. McDonald, Philip A. Livingston, Mark Robinson, Ernest A. Choate, Conrad Roland, A. Zaid, Seymour Schiff, Ed-ward R. Manners, William Middleton, Jerome Kessler, William Nixon, Robert L. Haines, Edward Ward, Philip Marvin, Phillips Street, Richard T. Darby, Joseph M. Cadbury, John H. Arnett, Jr., W. Corson, Julian K. Potter, Joseph Jacobs, Duncan McIntosh, Waldemor Fries, Corlies Hastings, Earnshaw Hastings, M. Albert Linton, Albert E. Conway, A. Nicholson, Jr., Philip S. Martin, William Miller, Dale R. Coman (Delaware Valley Ornithological Club),

73. Great Swamp-Watchung Ridges, N. J. (71/2 mile radius from New Providence; dry deciduous woods 50%, fields 25%, wet deciduous woods 10%, suburban areas 10%, evergreen woods 5%).-Dec. 29; dawn to dusk. Rain; temp. 35° to 45° F.; wind E, 1-7 m.p.h.; ground covered with 1-in. snow; streams frozen. Ten observers in 7 parties, plus day-long observations by members of Summit Nature Club at their feeding stations. Total hours, 25; total miles, 20. Black-crowned night heron, 1; mallard, 2; black duck, 55 (est.); baldpate, 1; Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 1; pheasant, 1; rock dove, 10 (feral); screech owl, 1; great horned owl, 1; barred owl, 2; long-eared owl, 10; hairy woodpecker, 14; downy woodpecker, 37; blue jay, 87; crow, 230; black-capped chickadee, 88; tufted titmouse, 55; white-breasted nuthatch, 35; brown creeper, 1; mockingbird, 1 (third year at feeding station-J.B.H.); robin, 3; bluebird, 3; starling, 150; English sparrow, 300 (est.); grackle, 45; cardinal, 40; evening grosbeak, 16 (regular vistors at feeding station-J.B.H.); purple finch, 8; slatecolored junco, 320; tree sparrow, 170; field sparrow, 10; white-throated sparrow, 40; fox sparrow, 5; song sparrow, 13. Total, 36 species; about 1759 individuals.-Gilbert Cant, Frederic R. Colie, David Downs, David Fables, James B. Hawley, Russell Sieder, Edwin Stearns, Mrs. C. B. Stoner, Ethel and Glen Woolfenden.

74. Lakehurst, N. J. (Point Pleasant to Toms River, Silverton and Lakehurst; pine woods 50%, deciduous woods 20%, cultivated land 10%, cedar swamps 5%, sand beach 5%, salt marsh 5%, towns 5%).—Dec. 23; 10 a.m. to 6 p.m. Clear; temp. 5° to 15° F.; wind NW, 15-45 m.p.h.; ground covered with 4-10-in. snow; streams and ponds frozen. Five observers in 1 party. Total hours, 8; total miles, 45 (40 by

car, 5 on foot). Common loon, 2; red-throated loon, 2; mute swan, 2; mallard, 15; black duck, 30; golden-eye, 3; Am. merganser, 7; redbreasted merganser, 9; red-tailed hawk, 1; redshouldered hawk, 2; marsh hawk, 1; sparrow hawk, 2; pheasant, 1; great black-backed gull, 45; herring gull, 110 (est.); ring-billed gull, 25; Bonaparte's gull, 5; rock dove, 50 (feral); hairy woodpecker, 1; downy woodpecker, 1; blue jay, 6; crow, 18; Carolina chickadee, 3; tufted titmouse, 5; white-breasted nuthatch, 1: robin, 61; golden-crowned kinglet, 8; starling, 20; myrtle warbler, 3; English sparrow, 33; cardinal, 1; goldfinch, 2; slate-colored junco, 18; tree sparrow, 23; fox sparrow, 3; white-throated sparrow, 3; song sparrow, 7. Total, 37 species; about 529 individuals.-David Downs, David Fables, Leo Holland, Russell Sieder, Glen Woolfenden.

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75. Leonia, N. J. (area bounded by Routes 4 and 6 and towns of Leonia and Teaneck) .--Dec. 27; 7 a.m. to 4:30 p.m. Clear with some cirrus clouds; wind mild, W; very light snow flurries in a.m.; temp. 32° at start, 38° at return. Five observers together except for numerous side excursions. Total party miles, about 12 (on foot). Black duck, 5; Am. merganser, 13; red-tailed hawk, 6; red-shouldered hawk, 3; marsh hawk, 2; sparrow hawk, 5; pheasant, 1; flicker, 1; hairy woodpecker, 2; downy woodpecker, 10; blue jay, 2; crow, 6; fish crow, 1; black-capped chickadee, 47; tufted titmouse, 5; white-breasted nuthatch, 10; brown creeper, 5; robin, 4; meadowlark, 2; red-wing, 12; evening grosbeak, 2; goldfinch, 2; junco, 13; tree sparrow, 95; field sparrow, 4; white-throated sparrow, 47; swamp sparrow, 35; song sparrow, 57. Total, 28 species; 397 individuals.-Robert De-Mars, Leonard Grossman, Daniel Heller, George Komorowski, David Roach.

76. Long Branch, N. J. (Oceanport to Wreck Pond; pine barrens 5%, residential areas 15%, beach front 40%, grassy and bush-covered fields 25%, wooded areas 5%, inlets and bays 10%).-Dec. 23; 7 a.m. to 4:30 p.m. Clear; temp. 10° at start, 15° at return; wind NW, 15-20 m.p.h.; 6-in. snow; ponds mostly frozen. Five observers in 3 parties. Total hours afield, 27 (15 on foot); total miles, 65 (15 on foot, 50 by car). Common loon, 3; red-throated loon, 6; doublecrested cormorant, 12; mallard, 87; black duck, 158; baldpate, 84; pintail, 2; scaup, 100; Am. golden-eye, 15; buffle-head, 11; old-squaw, 7; king eider, 2; Am. scoter, 1; white-winged scoter, 1; surf scoter, 3; ruddy duck, 3; Am. merganser, 100; red-breasted merganser, 100; vulture, 2; red-tailed hawk, 4; rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 7; coot, 31; sanderling, 7; black-backed gull, 14; herring gull, 950; ring-billed gull, 18; Bonaparte's gull, 1060; mourning dove, 20; kingfisher, 1; downy woodpecker, 18; horned lark, 36; blue jay, 6; crow, 96; Carolina chickadee, 46; titmouse,

26; white-breasted nuthatch, 1; brown creeper, 5; winter wren, 1; Carolina wren, 1; mocking-bird, 1; robin, 11; bluebird, 1; golden-crowned kinglet, 5; starling, 250; myrtle warbler, 35; English sparrow, 185; red-wing, 3; rusty black-bird, 3; cowbird, 12; cardinal, 21; evening grosbeak, 8; goldfinch, 30; junco, 107; tree sparrow, 315; field sparrow, 6; white-throated sparrow, 82; fox sparrow, 1; swamp sparrow, 2; song sparrow, 34; snow bunting, 3. Total, 62 species; approximately 4162 individuals.—Sgt. Henry Bennett, Irving H. Black, Benjamin Einhorn, John S. Gorham, George M. Seeley.

77. Mt. Holly, N. J. (Mt. Holly, Lumberton, Hainesport, Centerton, Rancocas, Beverly, Burlington).-Dec. 23; 7 a.m. to 5 p.m. Temp. 18°; no wind at start, brisk NW by midmorning; 6-8-in. snow. Four observers in 2 parties. Total hours, 13; total miles, 107 (100 by car, 7 on foot). Great blue heron, 1; mallard, 4; black duck, 169; pintail, 1; lesser scaup, 25; goldeneye, 10; Am. merganser, 64; turkey vulture, 16; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 7; red-shouldered hawk, 2; marsh hawk, 3; sparrow hawk, 14; ring-necked pheasant, 4; killdeer, 5; Wilson's snipe, 1; herring gull, 18; mourning dove, 143; kingfisher, 1; flicker, 5; hairy woodpecker, 1; downy woodpecker, 14; horned lark, 265; blue jay, 12; crow, 641; fish crow, 2; black-capped chickadee, 9; Carolina chickadee, 20; tufted titmouse, 13; white-breasted nuthatch, 4; brown creeper, 1; winter wren, 1; robin, 4; bluebird, 4; goldencrowned kinglet, 10; starling, 292; yellow palm warbler, 1 (observed for 15 minutes at 25 ft.-N.D.W.P., E.H.); English sparrow, 200; meadowlark, 10; red-wing, 15; rusty blackbird, 7; grackle, 2; cowbird, 7; cardinal, 35; evening grosbeak, 9; purple finch, 1; goldfinch, 16; junco, 412; tree sparrow, 95; white-throated sparrow, 49; fox sparrow, 1; song sparrow, 22. Total, 53 species; 2671 individuals. - Doris Highley, J. Russell Sprow, Elmer Highley, Nelson D. W. Pumyea.

78. Princeton, N. J. (within a 91/4-mile diameter; villages, estates, farms, lowland woods, upland woods, and red-cedar groves; lake, ponds, and marshes frozen, streams open).-Dec. 28; dawn until after dark. Mostly cloudy; temp. 30° at dawn; calm; ground largely snow-covered. Ten observers in 6 parties. Total hours, 361/2 (331/2 afoot, 3 in cars); total miles, 61 (38 afoot, 23 by cars); plus all day at a home feeding station. Great blue heron, 1; Canada goose, 45 (flock); mallard, 96; black duck, 3; baldpate, 3 (flock); pintail, 1; green-winged teal, 1; wood duck, 1; Am. merganser, 1; large hawks (probably chiefly red-tailed), 5; sparrow hawk, 1; pheasant, 2; mourning dove, 6 (flock); herring gull, 1; kingfisher, 1; flicker, 6; hairy woodpecker, 4; downy woodpecker, 51; blue jay, 36; crow, 274; fish crow, 5; chickadee, 119 (most surely black-capped, probably a few

Carolina); tufted titmouse, 64; white-breasted nuthatch, 28; red-breasted nuthatch, 1; brown creeper, 16; golden-crowned kinglet, 6; cedar waxwing, 25 (flock); starling, 363; myrtle warbler, 42; English sparrow, 250; grackle, 4; cowbird, 1; cardinal, 34; evening grosbeak, 2; purple finch, 14; goldfinch, 28; savannah sparrow, 1 (Mr. and Mrs. Law; median crown line, etc., carefully noted at food station and specimens consulted later); junco, 90; tree sparrow, 83; field sparrow, 11; white-throated sparrow, 23; swamp sparrow, 1; song sparrow, 18. Total, 44 species; about 1768 individuals. (Seen in area during count period: Cooper's hawk, 1; flocks of horned larks; bluebird, 1; rusty blackbird, 1.)-L. M. Black, E. D. Bloor, Jr., D. M. Compton, R. M. Herriott, Mr. and Mrs. R. R. Law, Peter Mott, C. H. Rogers, A. L. Shinn, David Spanel.

79. Raritan Estuary, N. J. (same area as in previous years; salt meadows 15%, fresh-water swamp 15%, swampy woods 20%, deciduous woodland 10%, pine woodland 5%, open farmland 10%, suburbs 25%).-Dec. 26; 5:30 a.m. to 8 p.m. Partly cloudy; wind SW, 1-7 m.p.h.; temp. 36° to 48° F.; patches of old snow; still and sluggish water choked with old ice. Ten observers in 6 parties. Total hours, 31; total miles, 17 (on foot). Black-crowned night heron, 1; mallard, 5; black duck, 5; greater scaup, 250 (est.); Am. golden-eye, 6; old-squaw, 40; Am. merganser, 10; red-breasted merganser, 22; Cooper's hawk, 1; red-tailed hawk, 5; redshouldered hawk, 1; rough-legged hawk, 1; marsh hawk, 6; sparrow hawk, 3; pheasant, 2; black-backed gull, 3; herring gull, 78; ringbilled gull, 13; rock dove, 10; barn owl, 1; screech owl, 1; great horned owl, 1; barred owl, 1; hairy woodpecker, 1; downy woodpecker, 9; northern horned lark, 18; blue jay, 39; crow, 362 in daytime (3500 est. in roost); blackcapped chickadee, 35; tufted titmouse, 5; whitebreasted nuthatch, 22; robin, 2; bluebird, 4; golden-crowned kinglet, 2; starling, 1638 in daytime (60,000 est. in roost); myrtle warbler, 34; English sparrow, 342; red-wing, 32 in daytime (2000 est. in roost); grackle (subsp. ?), 52 in daytime (3000 est. in roost); cowbird, 10 in daytime (500 est. in roost); cardinal, 5; goldfinch, 7; red-eyed towhee, 1; slate-colored junco, 48; tree sparrow, 139; white-throated sparrow, 7; swamp sparrow, 4; song sparrow, 17. Total, 48 species; about 72,301 individuals (partly est.).-Gilbert Cant, Edward L. Chalif, David Fables, John Gee, John T. S. Hunn, Russell Sieder, Edwin I. Stearns, Jr., Thor Stromsted, Glen and Ethel Woolfenden.

80. Ridgewood, N. J. (same area as in previous years, from Ramsey south to Radburn and east to Hudson River; open fields and farmland 35%, deciduous woodland 30%, hemlock woods 10%, fresh-water marsh 15%, brush 7%, feeding stations 3%).—Dec. 30; 8:30 a.m.

to 5 p.m.; intermittent rain; fog, heavy at times; 6-in. crusted snow; all vegetation ice incrusted: ponds completely ice covered, some streams open; temp. 27° to 35° F.; no wind. Fifteen observers in 9 parties. Total hours, 52; total miles, 55 (on foot). Canada goose, 17; black duck, 77; Am. golden-eye, 7; Am. merganser, 60; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 4; red-shouldered hawk, 4; bald eagle, 2; sparrow hawk, 3; bob-white, 1; pheasant, 15; great black-backed gull, 1; herring gull, 376; mourning dove, 38; belted kingfisher, 5; flicker, 3; hairy woodpecker, 15; downy woodpecker, 65; blue jay, 123; crow, 70; black-capped chickadee, 279; tufted titmouse, 75; white-breasted nuthatch, 63; redbreasted nuthatch, 6; brown creeper, 13; winter wren, 4; robin, 3; hermit thrush, 1; bluebird, 9; golden-crowned kinglet, 3; cedar waxwing, 2; starling, 863; myrtle warbler, 14; English sparrow, 474; meadowlark, 1; red-wing, 13; grackle, 1; cowbird, 2; cardinal, 15; evening grosbeak, 63; purple finch, 60; goldfinch, 80; towhee, 1; junco, 322; tree sparrow, 578; field sparrow, 3; white-throated sparrow, 50; fox sparrow, 11; song sparrow, 110. Total, 50 species; 4007 individuals. (Snowy owl seen at Radburn, Dec. 29; another at Oradell on Dec. 28.)—Mrs. R. H. Baker, Mrs. H. E. Carnes, Mrs. F. G. Dunham, Ann Dunham, Mrs. Norman Emig, Mrs. C. K. Nichols, Mrs. H. G. McEntee, J. L. Brewer, Jim Brewer, R. F. Byrne, Harry Kemp, Ernst Mayr, C. K. Nichols, D. B. Vail, Peter Vail (Ridgewood Audubon Society).

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81. Rutherford, N. J. (first census in area: 4 square miles: bounded on north by Paterson Plank Road, on east by Hackensack River, on south by DL & W railroad tracks, and on west by Lyndhurst, Rutherford, and Carlstadt; cattails 15%, phragmites 50%, deciduous woods 5%, waterways 10%, town suburbs 15%).-Dec. 30; dawn to dusk. Overcast; poor visibility in a.m., fairly good in p.m.; temp. 36° to 43°; wind 5-10 m.p.h. Five observers in 2 parties. Total miles, 24 (14 by foot, 10 by car). Common loon, 1; black duck, 32; scaup, 7; merganser, 46; red-tailed hawk, 14; red-shouldered hawk, 2; rough-legged hawk, 6; marsh hawk, 7; sparrow hawk, 9; Virginia rail, 1; herring gull, 40; ring-billed gull, 12; barn owl, 1; short-eared owl, 2; downy woodpecker, 1; northern horned lark, 2; blue jay, 103; crow, 26; black-capped chickadee, 10; titmouse, 1; nuthatch, 1; pipit, 1; starling, 2925; meadowlark, 12; red-wing, 250; rusty blackbird, 75; grackle, 75; cowbird, 25; cardinal, 2; goldfinch, 11; tree sparrow, 385; white-throated sparrow, 2; swamp sparrow, 2; song sparrow, 52; snow bunting, 1. Total, 35 species; 4142 individuals. (Seen in area Dec. 28: snowy owl, 3; longbilled marsh wren, 1.)-F. Wolfarth, J. L. Edwards, C. D. Brown, R. Hagar, T. Butler.

82. Sparta, N. J. (woods and fields bordering

Lake Mohawk, plus area between Sparta, Newton, and Branchville; open fields 40%, deciduous woods 30%, landscaped lawns and gardens 20%, hemlock woods 5%, frozen marshland 5%).-Dec. 30; 7:30 a.m. to 4:30 p.m. Cloudy; light fog and intermittent rain; temp. 24° to 36°; wind SW, 1-7 m.p.h.; ground covered with 3-in. fresh snow; open water in one swamp fed by process water from mfg. plant. Three observers in 2 parties. Total hours, 8; total miles, 16 (car used for transportation). Black duck, 3; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 3; ruffed grouse, 1; screech owl, 1; hairy woodpecker, 1; downy woodpecker, 8; horned lark, 9; blue jay, 10; crow, 32; black-capped chickadee, 50; tufted titmouse, 2; white-breasted nuthatch, 17; redbreasted nuthatch, 1; brown creeper, 3; longbilled marsh wren, 1; golden-crowned kinglet, 7: starling, 350; English sparrow, 250; cowbird, 1; cardinal, 5; evening grosbeak, 27; purple finch, 3; pine grosbeak, 9; goldfinch, 21; towhee, 1; slate-colored junco, 42; tree sparrow, 54; white-throated sparrow, 1; song sparrow, 2 Total, 31 species; about 917 individuals.-B. C. Hiatt, Mrs. E. V. Rodimer, Miss E. Case.

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83. Allentown, Pa. (Cedar Crest Boating Lake, Trexler Memorial Park, 8 miles west to Trexlertown, then 6 miles southwest to Topton Mountain; open farmland 5%, cattail marsh 40%, deciduous woodlot 10%, pine woodlot 25%, small ponds 20%).—Dec. 30; 8 a.m. to 4 p.m. Misty; temp. 35° to 40°; wind SE, 8-12 m.p.h.; ground covered with 4-in. crusted snow. Six observers in 2 parties. Total hours, 14 (12 on foot, 2 in car); total miles, 63 (18 on foot, 45 in car). Mallard, 45; black duck, 135; baldpate, 6; ring-necked duck, 2; lesser scaup, 1; Am. merganser, 2; Cooper's hawk, 1; marsh hawk, 1; sparrow hawk, 2; pheasant, 14; mourning dove, 9; long-eared owl, 8; kingfisher, 1; downy woodpecker, 1; blue jay, 7; crow, 576; black-capped chickadee, 14; brown creeper, 2; golden-crowned kinglet, 6; starling, 43; English sparrow, 79; cardinal, 3; goldfinch, 6; junco, 4; tree sparrow, 1; song sparrow, 4. Total, 26 species; 973 individuals. (Seen in area Dec. 28: snowy owl, 2-Weil.) - Ruth M. Roth, Rev. Conrad W. Raker, F. J. Trembley, Herman A. Weil, Earl E. Montgomery, Carl E. Montgomery.

84. Beaver, Pa. (Beaver; area near Montgomery Island Dam, 5 miles below Beaver; wooded pastures 20%, marshland and river plains 30%, town street 10%, deciduous wooded hillsides 40%),—Dec. 29; 7:45 a.m. to 3:30 p.m. Cloudy; temp. 25° to 30°; no wind; ground covered with 3-in. crusted snow. Total hours, 7¼ (on foot); total miles, 8 (on foot). Hairy woodpecker, 1; downy woodpecker, 31; crow, 2; black-capped chickadee, 58; tufted titmouse, 6; white-breasted nuthatch, 1; starling, 18 (est.); English sparrow, 20 (est.); cardinal, 15; slate-colored junco, 14; song sparrow, 11. Total,

11 species; about 177 individuals. (Seen in area Dec. 16: horned grebe, 1; tree sparrow, 11,)

—Charles F. Cole.

85. Elverson (Chester Co.), Pa. (71/2-mile radius from Marsh P.O.; cedar groves and thickets 15%, meadows and swampland 15%, deciduous woods 30%, upland fields 40%).-Dec. 30; dawn to dusk. Heavy hoar frost; heavy fog making use of glasses almost valueless, and light rain with continuing fog in p.m.; temp. 30° to 36° F.; wind S, 5-10 m.p.h., beginning at 11 a.m.; ground covered with 6-in. packed snow; large streams and ponds frozen but thawing. Ten observers in 5 parties. Total hours afoot, 301/2; total miles afoot, 28; cars used only for transportation. Black duck, 3; turkey vulture, 1; Cooper's hawk, 1; red-tailed hawk, 4; red-shouldered hawk, 1; ruffed grouse, 2; pheasant, 10; Wilson's snipe, 6; rock dove, 10; mourning dove, 26; barn owl, 1; great horned owl, 3; hairy woodpecker, 4; downy woodpecker, 23; horned lark, 43; blue jay, 30; crow, 697; black-capped chickadee, 30; titmouse, 29; white-breasted nuthatch, 20; Carolina wren, 1; robin, 1; bluebird, 10; golden-crowned kinglet, 2; starling, 138; English sparrow, 156; meadowlark, 4; rusty blackbird, 11; cardinal, 31; purple finch, 4; goldfinch, 20; junco, 341; tree sparrow, 140; white-throated sparrow, 6; song sparrow, 40. Total, 35 species; 1849 individuals. (Seen in area Dec. 26: brown creeper, 1; purple grackle, 1—Paul Martin.)—Ruth Mary Wagner, Warren Houck, Jack Kruppenbach, Arthur Sigman, Ira Amole, Fred Colwell, Edward Siddall, Herbert Houston, Lt.-Col. Gordon Whitcraft, Albert Conway.

86. Glenolden, Pa. (to Hog Island, Raccoon Island, Tinicum, Media, Springton Dam, Lenni, and vicinity).-Dec. 23; 7 a.m. to 4 p.m. Clear; wind NW, 10-30 m.p.h.; temp. 10° to 20°; 6-8-in. snow; marshes frozen. Ten observers in 4 groups. Total hours afield, 19 (17 on foot, 2 by car); total party miles, 32 (22 on foot, 10 by car). Horned grebe, 1; great blue heron, 1; black-crowned night heron, 1; Canada goose, 1; mallard, 60; black duck, 294; baldpate, 2; pintail, 51; hooded merganser, 2; Am. merganser, 110; turkey vulture, 4; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 8; redshouldered hawk, 1; marsh hawk, 6; sparrow hawk, 2; bob-white, 8; pheasant, 1; coot, 12; herring gull, 155; ring-billed gull, 15; mourning dove, 1; kingfisher, 2; flicker, 1; hairy woodpecker, 3; downy woodpecker, 15; horned lark, 62; blue jay, 8; crow, 85; black-capped chickadee, 24; Carolina chickadee, 4; tufted titmouse, 28; white-breasted nuthatch, 14; red-breasted nuthatch, 2; Carolina wren, 4; bluebird, 1; golden-crowned kinglet, 4; starling, 152; English sparrow, 160; meadowlark, 4; red-wing, 100; cardinal, 39; purple finch, 4; goldfinch, 54; slate-colored junco, 284; tree sparrow, 158; white-throated sparrow, 86; fox sparrow, 1; song sparrow, 66; snow bunting, 2. Total, 51

species and subspecies; 2105 individuals.—Anna and V. A. Debes, Mabel B., John A., and John Gillespie, R. O. Bender, Paul Schwalbe, James, E. H., and E. H. Rigby III.

87. Harrisburg, Pa. (same area as last 9 years but with far better coverage; creek and river bottoms 15%, town suburbs 15%, deciduous woodlands 35%, swamp 5%, cattail marsh 5%, open farmland 25%).-Dec. 26; dawn to dusk. Mostly overcast; temp. 33° to 30° F.; wind W variable, 1-7 m.p.h.; ground covered with 5-6-in. wet snow; river and lake largely frozen. Ten observers working singly and in 3 parties. Total hours, 21 (on foot); total miles, 30 (on foot). Mallard, 27; black duck, 158; pintail, 2; Am. golden-eye, 1; buffle-head, 2; Am. merganser, 14; goshawk, 1; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1: sparrow hawk, 11; pheasant, 10; killdeer, 1; herring gull, 1; rock dove, 10; mourning dove, 3; flicker, 1; hairy woodpecker, 1; downy woodpecker, 36; horned lark, 14; blue jay, 8; crow, 961; fish crow, 21; chickadee, 86; tufted titmouse, 34; white-breasted nuthatch, 14; brown creeper, 6; mockingbird, 2; golden-crowned kinglet, 3; starling, 468; black-poll warbler, 1 (clearly observed at 10 ft. in a locust grove, pale greenish yellow feet, streaks below, and general olive coloration noted; back definitely and noticeably streaked-R.R.); English sparrow, 226; meadowlark, 7; red-wing, 3; cowbird, 15 (1 flock); cardinal, 34; evening grosbeak, 12 (3 small groups); purple finch, 9; goldfinch, 23; junco, 258; tree sparrow, 294; field sparrow, 7; white-throated sparrow, 3; song sparrow, 63. Total, 45 species; 2856 individuals. (Seen in area Dec. 23: barn owl, 1; kingfisher, 1; Dec. 29: northern shrike, 1.)-Wm. Hilton, Fred. Hilton, O. Hoerner, Walt. Kohler, A. Mehring, Jr., C. Miller, Bob Moser, Dick Robins, P. S. Weirick, Ed. S. Frey.

88. Lancaster, Pa. (northwestern outskirts of city, consisting of suburban gardens 5%, swampy meadows and brushy swamp 25%, coniferous woods at city waterworks 25%, wooded bank of Big Conestoga Creek at waterworks and from Slackwater to Safe Harbor and bank of Susquehanna River 40%, bank of Pequea Creek at Wheatland Mills 5%).-Dec. 29; 8 a.m. to 4:30 p.m. Rain; temp. 34° at start, 36° at return; snow on ground; small ponds frozen, ice along edges of creeks and river; no wind until 3 p.m., when weather cleared and light wind started, 1-7 m.p.h. Eight observers in 3 groups. Total hours, 15; total miles 251/2 (17 by car, 81/2 on foot). Great blue heron, 1; ducks (too far out on river to identify), 250+; green-winged teal, 2; Am. merganser, 12; Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 9; ring-necked pheasant, 50; killdeer, 1; herring gull, 8; barn owl, 1; screech owl, 1; short-eared owl, 1; downy woodpecker, 6; blue jay, 2; crow, 300+; black-capped chickadee, 20; tufted titmouse, 10; white-breasted nuthatch, 3; red-breasted nuthatch, 5; brown creeper, 1; golden-crowned kinglet, 16; ruby-crowned kinglet, 1; starling, 550+; English sparrow, 160; purple grackle, 4; cardinal, 11; goldfinch, 2; junco, 65; tree sparrow, 75; white-throated sparrow, 6; song sparrow, 5. Total, 32 species; about 1581 individuals.—Don Brackbill, Emma Groff, Mary Grebinger, Elbert Nixdorf, Ruth Sener, Charles Y. Tanger, Louise F. A. Tanger, Martin Stapleton (Lancaster County Bird Club).

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89. Lititz, Pa. (center of Lititz in northern Lancaster County to 7 miles north, Hammer Creek valley and White Oak Pond area; town suburbs 10%, deciduous farm woodlots 30%, pastures 60%).-Dec. 30; 8 a.m. to 3 p.m. Overcast, with heavy mist; vegetation covered with hoar frost until 10 a.m.; steady rain after 3 p.m.; temp. 28° at start, 34° at return; no wind at start to SSE wind, 8-12 m.p.h. at 11 a.m.; 2-4-in. crusted snow on ground; creeks open, marshes and ponds frozen. Fourteen observers in 4 parties. Total hours, 28; total miles, 34 (26 on foot, 8 by car). Turkey vulture, 75; sharp-shinned hawk, 2; Cooper's hawk, 1; redtailed hawk, 5; sparrow hawk, 9; ring-necked pheasant, 211; killdeer, 1; mourning dove, 13; barn owl, 2; short-eared owl, 13; flicker, 5; hairy woodpecker, 2; downy woodpecker, 30; blue jay, 9; crow, 228; black-capped chickadee, 78; tufted titmouse, 26; white-breasted nuthatch, 43; brown creeper, 3; bluebird, 5; ruby-crowned kinglet, 8; cedar waxwing, 1; starling, 574; English sparrow, 459; cardinal, 39; evening grosbeak, 9; purple finch, 15; goldfinch, 28; slate-colored junco, 477; tree sparrow, 352; white-crowned sparrow, 2; white-throated sparrow, 28; song sparrow, 74. Total, 33 species; individuals. (Also seen within count period: Am. merganser, robin, golden-crowned kinglet, purple grackle.)—G. H. Pennypacker, Ford M. Gochenaur, Fred Gochenaur, Paul Forman, Russell Markert, Charles Regennas, Jr., Donald Reidenbaugh, Robert Buch, Kirk Garber, Donald Garber, Lamar Sipe, Barton L. Sharp, James Markley, Wm. M. Light (Lititz Bird Club).

90. Luzerne County, Pa. (including small section of Wyoming County; same area as in previous years; all lakes and ponds frozen; Susquehanna River 90% filled with packed and floating ice; at no time more than 7½ miles from Dallas; open farmland and river banks 40%, upland meadows, above 1200 ft. 15%, lake shore and cattail marsh 5%, coniferous woodland 15%, birch-maple-oak forest 25%).—Dec. 23. Clear; 6-14-in. snow on ground; wind NW, 8-12 m.p.h.; temp. 14° to 20°. Six observers in 3 parties. Total hours, 26 (24 on foot, 2 by car); total miles, 51 (33 on foot, 18 by car). Black duck, 1; Cooper's hawk, 2; red-tailed hawk, 3; sparrow hawk, 2; ring-necked pheasant, 3; rock

dove, 12; great horned owl, 1; hairy woodpecker, 1; downy woodpecker, 7; horned lark, 25; blue jay, 6; crow, 19; black-capped chickadee, 36; white-breasted nuthatch, 12; brown creeper, 3; starling, 760; English sparrow, 70; rusty blackbird, 3; cardinal, 6; evening grosbeak, 150; goldfinch, 4; slate-colored junco, 81; tree sparrow, 434; field sparrow, 1; song sparrow, 13. Total, 25 species; 1655 individuals.—Ted Balcomb, E. H. Carty, L. H. Holdsworth, C. Nordstrom, R. Trax, J. C. Tracy (Wyoming Valley Ornithological Club).

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91. Philadelphia, Pa. (Pennypack Creek valley, Delaware River to Lorimer Park).-Dec. 30; 7:30 a.m. to 2:30 p.m. Heavily overcast, foggy in a.m.; little wind; temp. 38° to 40°; rain after 1:30 p.m. Eight observers in 2 parties. Total hours afield, 54; total party miles, 40 (35 on foot, 5 by car). Great blue heron, 2; mallard, 15; black duck, 250; pintail, 4; merganser, 2; red-shouldered hawk, 2; sparrow hawk, 2; ring-necked pheasant, 2; herring gull, 5; snowy owl, 1 (M.M.M.); kingfisher, 2; hairy woodpecker, 3; downy woodpecker, 14; blue jay, 2; crow, 100+; black-capped chickadee, 26; tufted titmouse, 25; white-breasted nuthatch, 3; creeper, 1; robin, 1; golden-crowned kinglet, 6; starling, 500+; English sparrow, 15; cardinal, 5; goldfinch, 31; vesper sparrow, 4; junco, 75; tree sparrow, 80; white-throated sparrow, 5; song sparrow, 25. Total, 30 species; about 1208 individuals. Found freshly killed: barn owl, 1; black-crowned night heron, 1.-Joseph Ettlinger, Marjorie M. Muth, Louis Reichel, George Lakata, John T. McNeill, Jr., Robert W. Tuckey, Elmer Marlor, William Nixon, William

92. Pittsburgh, Pa. (city suburbs, Frick Park, Milvale, Thornburg, Elfinwild, Forest Hills, Bellvue, Riverview Park; deciduous wooded hillsides 50%, lawns 10%, uncultivated fields 40%).—Dec. 23. Hazy; temp. 12° to 18° F.; wind SW, 0-5 m.p.h.; ground covered with 6-8-in. snow. Twelve observers in 7 parties. Total hours afoot, 29; total miles afoot, 22. Cooper's hawk, 2; bob-white, 26; pheasant, 25; hairy woodpecker, 6; downy woodpecker, 27; black-capped chickadee, 57; tufted titmouse, 63; white-breasted nuthatch, 22; brown creeper, 1; Carolina wren, 1; starling, 640 (est.); English sparrow, 70; cardinal, 67; goldfinch, 6; towhee, 1; slate-colored junco, 84; tree sparrow, 10; song sparrow, 26. Total, 18 species; approximately 1134 individuals.—Helen Blair, Mary Hartsough, Russell Buehl, Allan Kirk, Mrs. D. E. Chantler, J. E. Wright, Elizabeth McClelland, Mary Lou Brown, J. C. Brown, Carl and Dorothy Auerswald, C. B. Shoemaker (Audubon Society of Western Pennsylvania).

93. Reading, Pa. (radius of 7½ miles from city; open farmland 40%, town suburbs 10%, young pine plantation 10%, deciduous woodland 30%, artificial lakes and streams 10%).—

Dec. 23; 8 a.m. to 4:30 p.m. Fair; wind NW, 13-18 m.p.h.; temp. 12° at start, 28° at return; ground covered with 4-in, snow; Lake Ontelaunee frozen, Peter's Creek and Moselem dam open. Sixteen observers in 6 groups by car and afoot. Horned grebe, 1; night heron, 1; mallard, 170; black duck, 363; gadwall, 2; baldpate, 40; pintail, 53; green-winged teal, 41; Am. merganser, 4; sharp-shinned hawk, 2; Cooper's hawk, 2; red-tailed hawk, 12; rough-legged hawk, 1; golden eagle, 1 (well identified-Sigman, Shaeffer, and Poole); marsh hawk, 2; sparrow hawk, 1; ring-necked pheasant, 115; coot, 1; killdeer, 6; rock dove, 2; mourning dove, 26; kingfisher, 2; flicker, 2; hairy woodpecker, 3; downy woodpecker, 28; horned lark, 59; blue jay, 28; crow, 451; chickadee, 90; tufted titmouse, 24; white-breasted nuthatch, 14; brown creeper, 1; winter wren, 2; hermit thrush, 1; golden-crowned kinglet, 6; cedar waxwing, 7; starling, 268; English sparrow, 163; meadowlark, 2; purple grackle, 6; cardinal, 56; evening grosbeak, 26 (Nunemacher); purple finch, 10; goldfinch, 84; junco, 386; tree sparrow, 169; field sparrow, 1; white-throated sparrow, 19; song sparrow, 30. Total, 49 species; approximately 2784 individuals.-Elizabeth Dillon, Lawrence Dillon, Patricia Dillon, John Eshelman, Martin Eshelman, James Gage, Edward Hill, George Hurley, Elwood Manning, Paul Martin, Byron Nunemacher, Earl Poole, David Shaeffer, Arthur Sigman, Parker Spear, Samuel Wishnieski (members Baird Ornithological Club).

94. Scranton, Pa. (same area as in 1944 and previous counts: radius of 71/2 miles from airport at Schultzville; open farmland, hemlock and deciduous woodland, Gardner's creek valley, Susquehanna River flats and wooded river banks).-Dec. 30; 7 a.m. to 5 p.m. Overcast; wind gusty; light rain after 1 p.m.; temp. 32° to 37° F.; ground covered with 3-4-in. snow; roads icy; lakes and ponds frozen, river open. Fourteen observers in 4 parties: #1-7 a.m. to 2:30 p.m.; #2-8:30 a.m. to 2:30 p.m.; #3-9 a.m. to 3:30 p.m.; #4-9 a.m. to 5 p.m. Total hours afield, 28; total miles, 103 (25 on foot, 78 by car). Black duck, 10; Am. golden-eye, 1; hooded merganser, 4; Am. merganser, 18; marsh hawk, 1; sparrow hawk, 6; ruffed grouse, 2; ring-necked pheasant, 5; herring gull, 1; mourning dove, 1; belted kingfisher, 1; hairy woodpecker, 3; downy woodpecker, 13; horned lark, 7; blue jay, 9; crow, 35; black-capped chickadee, 213; tufted titmouse, 5; white-breasted nuthatch, 11; winter wren, 1; golden-crowned kinglet, 2; starling, 230; English sparrow, 277; cardinal, 12; evening grosbeak, 1; junco, 112; tree sparrow, 259; song sparrow, 12. Total, 28 species; about 1252 individuals.-J. C. Tracy, Mary A. Taylor, M. J. Kelly, Mr. and Mrs. Francis H. Coffin, Billy Smiles, David Wharton, Paul Widdall, Peter Eskra, Charles Dale,

Edward Williams, George and Bob Lowe, Joe Buydos (Scranton Bird Club).

95. Sewickley, Pa. (Reardon Run, Allegheny Co.; Raccoon Creek, Beaver Co.).—Dec. 23; 9 a.m. to 3 p.m. Clear; temp. 10° to 18°; light fresh wind; ground covered with 6-in. snow. Two observers together on foot. Bob-white, 11; hairy woodpecker, 1; downy woodpecker, 18; prairie horned lark, 1; chickadee, 38; white-breasted nuthatch, 1; tufted titmouse, 21; winter wren, 1; golden-crowned kinglet, 2; starling, 2; English sparrow, 19; cardinal, 24; goldfinch, 2; towhee, 1; slate-colored junco, 10; tree sparrow, 123; song sparrow, 13. Total, 17 species; 288 individuals.—Frank A. Hegner, Max Henrici.

96. State College, Pa. (town and college campus, including feeding stations 40%, deciduous woodlot north of town 4%, pond, stream, and frozen swamp east of town 8%, college farms and open farmland with suburban homes near Millbrook, Lemont, and along road to Shingletown 24%, mixed deciduous and coniferous forest near Shingletown and near Pine Grove Mills 24%).-Dec. 26; 8 a.m. to 5 p.m. Cloudy with snow flurries; temp. 32° to 36°; wind W, 19-24 m.p.h.; ground covered with 8-in. crusted snow and sleet; streams open. Nine observers, 2 together, others separate, 3 watching feeding stations in town. Total hours, 25 (mostly on foot); total miles 26 (23 on foot, 3 by car), Great blue heron, 1; mallard, 23; blue-winged teal, 1 (first winter record); marsh hawk, 1; sparrow hawk, 1; ring-necked pheasant, 3; killdeer, 1; Wilson's snipe, 2 (first winter record); red-headed woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 15; blue jay, 2; crow, 34; black-capped chickadee, 41; tufted titmouse, 13; white-breasted nuthatch, 18; brown creeper, 1; winter wren, 1; robin, 1; starling, 211; English sparrow, 90; cardinal, 18; evening grosbeak, 6; purple finch, 2; junco, 49; tree sparrow, 105; song sparrow, 4. Total, 27 species; 646 individuals.-Roy D. Anthony, Mrs. Arthur W. Cowell, Jane Cowell, David Cowell, Mrs. Harold A. Everett, Mrs. Harry P. Hammond, R. D. Fellows, Frank Koos, William S. Clarke, Jr.

97. West Chester, Pa. (71/2-mile radius; open farmland 50%, town suburbs 5%, deciduous woods 20%, mixed evergreen plantings 5%) .-Dec. 27; dawn to dusk. Cloudy; temp. 32° to 37° F.; wind N, 8-12 m.p.h.; ground bare except for remains of drifts from previous 9-in. snow; reservoirs and ponds frozen. Thirty observers in 16 parties. Total hours, 823/4 (691/2 on foot, 131/4 by car); total miles, 221 (67 on foot, 154 by car). Great blue heron, 1; black-crowned night heron, 1; mallard, 24; black duck, 1; Am. golden-eye, 3; Am. merganser, 18; turkey vulture, 5; sharp-shinned hawk, 4; Cooper's hawk, 3; red-tailed hawk, 9; red-shouldered hawk, 6; rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 13; pheasant, 10; killdeer, 1; herring gull,

7; ring-billed gull, 2; pigeon, 108; mourning dove, 62; barn owl, 2; screech owl, 1; long-eared owl, 2; kingfisher, 1; flicker, 4; red-bellied woodpecker, 1; hairy woodpecker, 13; downy woodpecker, 97; horned lark, 21; jay, 12; crow, 2809; black-capped chickadee, 53: Carolina chickadee, 5; titmouse, 115; white-breasted nuthatch, 58; red-breasted nuthatch, 2; brown creeper, 9; winter wren, 4; Carolina wren, 4; robin, 23; bluebird, 27; golden-crowned kinglet, 55; cedar waxwing, 9; starling, 616; English sparrow, 403; meadowlark, 8; red-wing, 31; purple grackle, 1; cardinal, 47; purple finch, 23; goldfinch, 273; junco, 443; tree sparrow, 511; field sparrow, 4; white-throated sparrow, 43; song sparrow, 87. Total, 56 species; 6097 individuals. (Seen in area Dec. 23: ruby-crowned kinglet, 1-Roberts.)-Mrs. Isaac G. Roberts, Mrs. Alfred Hallowell, Mary Sharples, Helen Rhoads, Mrs. Joseph Russell, Mrs. Edwin Cooper, Rev. and Mrs. John Leitch, R. Louis Lloyd, Arthur Sigman, Mr. and Mrs. Edward Siddall, Fred Colwell, Herbert Houston, Robert Sehl, Arthur Hoopes, Francis Newman, Mrs. Laura Abbott, Mrs. Lewis Marshall, Mr. and Mrs. Joseph Cope, Anna and Florence James, Margaret Goodwin, Violet Findlay, Mary Thomas, Gertrude Rhoads, Paul Martin, Robert Gordon, Albert Conway (West Chester Bird Club and friends).

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98. Wyncote, Pa. (to Chestnut Hill, Ambler, Trevose, Churchville, and Cheltenham; deciduous woods 45%, brushy fields 30%, town suburbs 15%, open farmland 7%, mixed deciduous and evergreen woods 3%).—Dec. 23. Clear: temp. 6° to 24°; strong NW wind; 10-in. snow on ground; ponds frozen. Eight observers in 4 parties. Total hours, 301/2 (26 on foot, 41/2 in car); total miles, 53 (11 on foot, 42 by car). Sharp-shinned hawk, 2; Cooper's hawk, 1; redtailed hawk, 3; sparrow hawk, 1; ring-necked pheasant, 10; mourning dove, 66; screech owl, 1; flicker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 32; blue jay, 19; crow, 237; black-capped chickadee, 12; tufted titmouse, 28; white-breasted nuthatch, 20; red-breasted nuthatch, 2; brown creeper, 5; winter wren, 1; robin, 4; hermit thrush, 1; bluebird, 2; golden-crowned kinglet, 11; cedar waxwing, 20; starling, 120; English sparrow, 71; meadowlark, 2; cardinal, 26; purple finch, 7; goldfinch, 10; junco, 537; tree sparrow, 89; field sparrow, 1; white-throated sparrow, 43; fox sparrow, 5; song sparrow, 15. Total, 36 species; 1408 individuals.-John Bartsch, John Dornan, Robert Ellis, Mrs. Florence Griscom, Jay V. Hare, Fred Mears, Arnold Moore, Curtis Sooy (Wyncote Bird Club).

99. York Co., Pa. (fields and countryside from East York adjoining the Lincoln Highway east to Wrightsville, north along the Susquehanna River 2 miles, south for 2 miles; open farmland 40%, deciduous woodland and fields

along river 60%).-Dec. 30; 8 a.m. to 3 p.m. Heavy overcast; visibility poor, raining later on; temp. 30° to 36° F.; no wind at start, later SE shifting to SW, 13-18 m.p.h.; ground covered with 2-in. crusted snow; river mostly frozen, small streams open. Four observers together (in 2 parties 21/2 hours). Total hours, 91/2 (81/2 on foot, 1 by car); total miles, 36 (12 on foot, 24 by car). Black duck, 250; red-tailed hawk; 1; sparrow hawk, 3; ring-necked pheasant, 14; killdeer, 1; herring gull, 1; mourning dove. 20; hairy woodpecker, 1; downy woodpecker, 6; blue jay, 1; crow, 473; Carolina chickadee, 1; tufted titmouse, 11; white-breasted nuthatch, 2; brown creeper, 2; winter wren, 1; Carolina wren, 2; bluebird, 2; ruby-crowned kinglet, 1; starling, 192; English sparrow, 90; meadowlark, 13; cardinal, 13; slate-colored junco, 2; tree sparrow, 25; white-throated sparrow, 29; song sparrow, 17. Total, 27 species; 1174 individuals. (Seen in area Dec. 29: crow, 1000; week earlier: snowy owl, 1; evening grosbeak, several.)—Sara Ross Smith, Viola V. Dietz, Edwin T. Moul, Theodore Hake (York County Bird Club).

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100. Bombay Hook National Wildlife Refuge, Smyrna, Del. (same area as in 1943 and previous counts; refuge and adjacent fields; salt marsh 30%, agricultural fields and hedgerows 50%, deciduous swamps 20%).—Dec. 30; 9 a.m. to 5 p.m. Heavy fog, rain for 5 hours, dark and cloudy for 3 hours; patches of crusted snow, deep mud; wind NW, 10-15 m.p.h.; temp. 280 to 36°: tidal streams frozen. Nine observers in 5 parties. Total party hours afield, 48; total miles, 61 (25 by car, 36 on foot). Great blue heron, 5; Am. bittern, 3; Canada goose, 56; mallard, 15; black duck, 2257; pintail, 28; shoveller, 3; wood duck, 2; golden-eye, 14; surf scoter, 2; hooded merganser, 35; Am. merganser, 12; turkey vulture, 88; black vulture, 1; sharp-shinned hawk, 1; Cooper's hawk, 1; redtailed hawk, 14; red-shouldered hawk, 2; roughlegged hawk, 5; bald eagle, 3; marsh hawk, 17; sparrow hawk, 39; bob-white, 18; ring-necked pheasant, 3; herring gull, 50; ring-billed gull, 3; mourning dove, 170; kingfisher, 2; flicker, 11; red-bellied woodpecker, 7; hairy woodpecker, 3; downy woodpecker, 12; horned lark, 52; blue jay, 12; crow, 500; fish crow, 7; Carolina chickadee, 28; tufted titmouse, 15; white-breasted nuthatch, 6; red-breasted nuthatch, 2; house wren, 2 (near farm); winter wren, 1; Carolina wren, 14; mockingbird, 3; robin, 4; bluebird, 16; golden-crowned kinglet, 11; starling, 600; myrtle warbler, 3; English sparrow, 79; meadowlark, 32; red-wing, 2242; rusty blackbird, 5; purple grackle, 3; cowbird, 6; cardinal, 29; purple finch, 4; goldfinch, 88; savannah sparrow, 2; vesper sparrow, 2; junco, 29; tree sparrow, 133; field sparrow, 1; white-throated sparrow, 25; swamp sparrow, 1; song sparrow, 33. Total, 66 species; 6872 individuals. (Waterfowl population decreased sharply on Dec. 19

as the result of subfreezing temperatures and heavy snow and has not returned to normal.)— Herbert Cutler, David Cutler, Jerome Cutler, John F. Herholdt, George Spinner, Edwin F. Finkel, Harry Goldstein, Mrs. Evelyn Kramer, Ouintin Kramer.

101. Accokeek, Md. (east side of Potomac just below mouth of Piscataway Creek; area of about 2 square miles, comprising river front, cultivated river flat, wooded swamp, cattail marsh, and border of adjacent upland, covered intensively on foot).-Dec. 23; 8:30 a.m. to 5 p.m. Fair; temp. 16° to 22° F.; wind NW. about 10 m.p.h. in morning, dying down in afternoon; 6-in. loose dry snow 4 days old on ground; Potomac completely frozen except for navigation channel. Two observers together, 1 singly. Total hours, 16; total miles, about 8. Great blue heron, 1; Am. merganser, 20; turkey vulture, 40; black vulture, 5; red-tailed hawk, 1; red-shouldered hawk (?), 2; Am. rough-legged hawk, 1 (black phase, with basal part of tail white-W.W.R.); bald eagle, 4; marsh hawk, 2; sparrow hawk, 3; bob-white, 15; ring-billed gull(?), 6 (flying in distance); mourning dove, 60; flicker, 10; red-bellied woodpecker, 10; yellow-bellied sapsucker, 2; hairy woodpecker, 7; downy woodpecker, 14; blue jay, 20; crow, 25; Carolina chickadee, 20; tufted titmouse, 40; white-breasted nuthatch, 7; red-breasted nuthatch, 1; brown creeper, 15; winter wren, 4; Carolina wren, 11; mockingbird, 7; hermit thrush, 2; bluebird, 15; golden-crowned kinglet, 30; starling, 1000 (est.); myrtle warbler, 1; English sparrow, 15; meadowlark, 35; red-wing, 40; rusty blackbird, 7; cowbird, 1; cardinal, 40; purple finch, 4; goldfinch, 30; savannah sparrow, 6; slate-colored junco, 300; tree sparrow, 40; field sparrow, 10; white-throated sparrow, 200; swamp sparrow, 20; song sparrow, 35. Total, 48 species; about 2184 individuals.-A. A. Baker, Edwin T. McKnight, W. W. Rubey.

102. Baltimore County, Md. (west shore of Chesapeake Bay from Middle River to Gunpowder River, inland to B&O railroad; open farmland 30%, mixed woodland 40%, cattail marsh 10%, tide-water creeks 20%).-Dec. 30; 8 a.m. to 4 p.m. Heavy overcast turning to very heavy fog at 10 a.m.; fog with rain from 11 a.m. on; wind N, 13-18 m.p.h.; temp. 30° to 35° F.; ground covered with 3-in. old snow; creeks frozen, open water of bay estuaries beyond limit of visibility in fog. Six observers in 3 parties. Total hours, 16 (on foot); total miles, 21 (on foot). Great blue heron, 1; whistling swan, 8; redhead, 1; sharp-shinned hawk, 1; herring gull, 3; flicker, 1; hairy woodpecker, 3; downy woodpecker, 9; blue jay, 15; crow, 37; tufted titmouse, 8; white-breasted nuthatch, 1; Carolina wren, 5; mockingbird, 1; bluebird, 8; golden-crowned kinglet, 7; starling, 78; English sparrow, 38; red-wing, 21; cardinal, 15; goldfinch, 14; slate-colored junco, 53; tree sparrow, 55; white-throated sparrow, 12; song sparrow,

4. Total, 25 species; 399 individuals.—O. W. Crowder, Ray Beasley, Stephen Simon, Wm. McHoul, Florence Burner, Pearl Heaps (Maryland Ornithological Society).

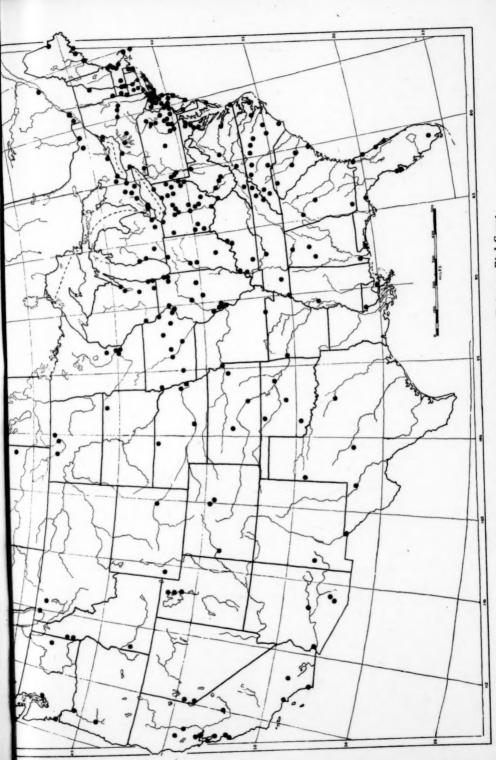
103. Loch Raven (Baltimore Co.), Md. (from Towson around lake through Dulaney valleysame general area as in former counts; early seral stages, 20-30 years following cultivation 75%, mature deciduous woodland 5%, cultivated land 10%, coniferous plantations 10%).-Dec. 23: 6 a.m. to 5 p.m. Clear; about 6-in. snow on ground; about 50% of lake ice-covered; wind NW, 8-12 m.p.h.; temp. 25° to 15° F. Total hours, 11 (on foot); total miles, 18 (on foot). Mallard, 1; black duck, 3; Am. merganser, 52; turkey vulture, 6; sharp-shinned hawk, 1; redshouldered hawk, 1; mourning dove, 47; flicker, 1; downy woodpecker, 10; crow, 111; blackcapped chickadee, 1 (direct comparison visually and vocally with next species); Carolina chickadee, 11; tufted titmouse, 5; white-breasted nuthatch, 1; Carolina wren, 1; robin, 2; bluebird, 39; golden-crowned kinglet, 2; ruby-crowned kinglet, 1; starling, 5; myrtle warbler, 2; meadowlark, 2; cardinal, 9; purple finch, 1; goldfinch, 15; junco, 88; tree sparrow, 77; whitethroated sparrow, 10; swamp sparrow, 3; song sparrow, 3. Total, 30 species; 511 individuals,-Haven Kolb.

104. Bowie, Md. (entire area of the Patuxent Research Refuge of the Fish and Wildlife Service, 2656 acres; bottomland and swamp forest 37%, upland oak 11%, fields 17%, pine 16%, terrace (beech-white oak) 9%, lakes 3%, hedgerows and wood margin 4%, residential 3%).-Dec. 28; 6:15 a.m. to 6 p.m. Heavily overcast; intermittent drizzle and light rain (.04 in.); temp. 30° to 38°; wind SE, 6-3 m.p.h.; 2-in. snow on ground; lakes frozen; river open. Thirteen observers in 7 parties. Total hours, 631/2; total miles, 71 (afoot). Turkey vulture, 1; Cooper's hawk, 2; red-tailed hawk, 3; red-shouldered hawk, 11; marsh hawk, 3; bobwhite, 40; mourning dove, 72+; screech owl, 1; great horned owl, 1; barred owl, 6; flicker, 44; pileated woodpecker, 3; red-bellied woodpecker, 30; yellow-bellied sapsucker, 3; hairy woodpecker, 22; downy woodpecker, 84; blue jay, 162; crow, 151; Carolina chickadee, 107; tufted titmouse, 180; white-breasted nuthatch, 52; redbreasted nuthatch, 22; brown creeper, 21; winter wren, 15; Carolina wren, 21; mockingbird, 14; robin, 5; hermit thrush, 27; bluebird, 68; golden-crowned kinglet, 144; starling, 244+; myrtle warbler, 14; English sparrow, 22; meadowlark, 1; rusty blackbird, 1; cardinal, 65; purple finch, 7; pine siskin, 2; goldfinch, 98; red-eyed towhee, 2; slate-colored junco, 535; tree sparrow, 337; field sparrow, 23; whitethroated sparrow, 111; fox sparrow, 1; swamp sparrow, 12; song sparrow, 82. Total, 47 species; about 2872 individuals. (Seen in area earlier in week: horned lark, 12; red-wing, 1; cowbird, 8.)

—John W. Aldrich, Mr. and Mrs. John Brainerd, Mr. and Mrs. James Cope, Malcolm Crooks, Clarence W. Klingensmith, A. C. Martin, Roger T. Peterson, Chandler S. Robbins, Mr. and Mrs. Robert E. Stewart, Francis M. Uhler.

105. Washington, D. C., Region (north to Glen Echo, Rock Creek Park, Soldiers' Home, and Montrose Park; east to Fort Dupont Park and Kenilworth Aquatic Gardens on the Anacostia River; south to Oxen Run, Md., and Dyke, Va.; west to Alexandria Reservoir and Falls Church, Va.; center of 15-mile circle was Navy Annex Building in Arlington).-Dec. 23; 6:45 a.m. to 5:30 p.m. Clear; 6-in. snow on ground; marshes frozen, rivers with small patches of open water; temp. 16° to 26°. Thirtysix observers in 7 groups. Total miles, 282 (222 by auto, 60 on foot). Great blue heron, 12; mallard, 15; black duck, 340; baldpate, 1; pintail, 220; green-winged teal, 2; redhead, 1; lesser scaup, 1; Am. merganser, 165; turkey vulture, 70; black vulture, 1; sharp-shinned hawk, 1; Cooper's hawk, 7; red-tailed hawk, 6; redshouldered hawk, 6; bald eagle, 15; marsh hawk, 5; rough-legged hawk, 1; duck hawk, 1; pigeon hawk, 1; sparrow hawk, 7; bob-white, 29; coot, 2; killdeer, 9; herring gull, 437; ring-billed gull, 13; mourning dove, 69; snowy owl, 1; horned owl, 1; barred owl, 5; belted kingfisher, 4; flicker, 14; pileated woodpecker, 3; red-bellied woodpecker, 28; red-headed woodpecker, 3; yellow-bellied sapsucker, 3; hairy woodpecker, 13; downy woodpecker, 111; phoebe, 1; horned lark, 102; blue jay, 149; crow, 480; fish crow, 1; Carolina chickadee, 184; tufted titmouse, 227; white-breasted nuthatch, 131; red-breasted nuthatch, 2; brown creeper, 19; winter wren, 5; Carolina wren, 55; mockingbird, 88; robin, 2; hermit thrush, 3; bluebird, 82; golden-crowned kinglet, 44; cedar waxwing, 9; migrant shrike, 1; starling, 15,000; myrtle warbler, 29; English sparrow, 239; meadowlark, 28; red-wing, 188; cowbird, 12; cardinal, 283; evening grosbeak (3 flocks), 32; purple finch, 66; pine siskin, 24; goldfinch, 180; towhee, 2; slate-colored junco. 696; tree sparrow, 107; field sparrow, 29; whitethroated sparrow, 221; swamp sparrow, 2; song sparrow, 240. Total, 75 species; 20,586 individuals.-John W. Aldrich, Richard Roddis, Capt. E. Davis, Gerald Mersereau, Frank Thompson, Edith Johnson, Napier Shelton, Hilda Smith, Harold B. Stabler, Ralph E. Lawrence, Keith McHenry, Bruce McHenry, Bona May Mc-Henry, Donald E. McHenry, Roger T. Peterson, Capt. and Mrs. Frank Heck, T. L. Zapf, Roxie C. Simpson, Fern Bell, James Fowler, Malcolm Davis, Mildred Ericson, Mr. and Mrs. Donald M. Thatcher, Robert Bartl, Frank Sartwell, Robert H. Gibbs, Ovid E. Roberts, F. T. Griffin, Wilma Stark, C. Arthur Fast, James Peters, David Gatti, Stephen Gatti.

106. Back Bay, Va. (causeway to Knott's



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Distribution of Audubon Magazine's Forty-sixth Christmas Bird Count

Island, N. C., on route 615, to brook marsh on route 623, Va., to Sands Bridge; ocean beach to Back Bay Fish and Wildlife Refuge; on bay in boat; return by beach to Sands Bridge; fresh-water marsh 21%, fields 7%, woods 14%, bay 23%, beach 35%).-Dec. 29; dawn to dusk. Rain or heavy drizzle in a.m., cloudy in p.m.; temp. 38° to 41°; wind N to NW, 11-20 m.p.h. Five observers, 3 in a.m., 1 additional at noon, all 5 together in p.m. Total hours, 9 (4 on foot, 2 by boat, 3 by truck and car); total miles, 48 (6 on foot, 12 in boat, 30 by truck and car). Common loon, 5; Holboell's grebe, 1 (near shore-Mrs. A.C.R.); horned grebe, 1; piedbilled grebe, 1; great blue heron, 8; Am. bittern, 1; whistling swan, 2250 (partly est.); Canada goose, 3000 (est.); greater snow goose, 15,000 (est.); blue goose, 2 (J.E.P.); mallard, 2; black duck, 24; baldpate, 2024 (partly est.); pintail, 3000 (est.); green-winged teal, 3; ringnecked duck, 1 (freshly killed by hunters, reasonably certain within census area); canvasback, 27; lesser scaup, 20; buffle-head, 3; oldsquaw, 1; white-winged scoter, 2; Am. scoter, 62: ruddy duck, 3; hooded merganser, 1 (freshly killed by hunters, reasonably certain within census area); turkey vulture, 8; black vulture, 2; Cooper's hawk, 1; bald eagle, 3; marsh hawk, 12; duck hawk, 1 (Mrs. A.C.R. and V.R.B.P.); sparrow hawk, 3; king rail, 1; coot, 1140 (partly est.); Wilson's snipe, 2; sanderling, 6; great black-backed gull, 1; herring gull, 212; ringbilled gull, 90; mourning dove, 4; flicker, 1; red-bellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 2; crow, 74; fish crow, 7; Carolina chickadee, 2; tufted titmouse, 2; brown creeper, 1; Carolina wren, 5; mockingbird, 7; brown thrasher, 1; robin, 6; hermit thrush, 2; bluebird, 21; ruby-crowned kinglet, 1; starling, 100; myrtle warbler, 9; English sparrow, 91; meadowlark, 50; red-wing, 1473 (partly est.); boat-tailed grackle, 3; purple grackle, 7; cardinal, 15; goldfinch, 11; towhee, 1; savannah sparrow, 6; chipping sparrow, 1 (E.L.W.); whitethroated sparrow, 30; fox sparrow, 14; swamp sparrow, 14; song sparrow, 18. Total, 71 species; about 28,906 individuals,-Mr. and Mrs. Jack E. Perkins, Virginia R. B. Pickell, Mrs. A. C. Reed, Earl L. White.

107. Blacksburg, (Montgomery Co.), (V.P.I. campus and farm, 7 miles; along Strouble's Creek, 2 miles; Brush Mountain and Tom's Creek, 15 miles; and New River-Whitehorne to Goodwin's Ferry, 9 miles; within 15-mile diameter; farmland 65%, woodland 25%, river bottom 10%).-Dec. 24; 7 a.m. to 5:15 p.m. Cloudy; temp. 18° at start, 24° at return; wind E, slight; 3-6-in. snow. Four observers in 2 groups. Total hours, 201/2 (on foot; car used in shifting from point to point); total miles, 31 (on foot). Am. bittern, 1; Canada goose, 13; mallard, 46; black duck, 48; gadwall, 2; baldpate, 17; pintail, 2; green-winged teal, 25; shoveller, 1; wood duck, 4; redhead, 1; ringnecked duck, 5; canvas-back, 2; lesser scaup, 2; golden-eye, 13; buffle-head, 19; hooded merganser, 21; turkey vulture, 45; black vulture. 7; sharp-shinned hawk, 1; red-tailed hawk, 1; sparrow hawk, 8; ruffed grouse, 8 (2, and tracks of 6); bob-white, 19 (2 coveys; also tracks of some 60 others, 4 coveys); killdeer, 14; Wilson's snipe, 13; domestic pigeon (feral), 13; mourning dove, 45; screech owl, 4; barred owl, 2; belted kingfisher, 3; flicker, 1; pileated woodpecker, 1; red-bellied woodpecker, 2; yellow-bellied sapsucker, 2; hairy woodpecker, 4; downy woodpecker, 19; prairie horned lark, 165; blue jay, 26; crow, 705 (partly est.); Carolina chickadee, 48; tufted titmouse, 36; whitebreasted nuthatch, 18; red-breasted nuthatch, 20; brown creeper, 3; winter wren, 10; Carolina wren, 5; mockingbird, 14; hermit thrush, 6; bluebird, 6; golden-crowned kinglet, 72; migrant shrike, 1; starling, 201; English sparrow, 111; meadowlark, 142; red-wing, 4; rusty blackbird, 27; cowbird, 8; cardinal, 158; purple finch, 18; goldfinch, 296; junco, 446; tree sparrow, 229; field sparrow, 45; white-crowned sparrow, 57; white-throated sparrow, 6; song sparrow, 193. Total, 67 species; 3510 individuals. (Seen during period: Lapland longspur, Dec. 19; Cooper's hawk, Dec. 20; great blue heron, Dec. 19-21; red-shouldered hawk, Dec. 20-22; robin, Dec. 27.)-C. O. Handley, Sr. and Jr., John Handley, J. W. Murray.

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108. Chincoteague National Wildlife Refuge, Assateague Island, Va. (approximately 9000 acres of marsh and seabeach, on south end of the island).-Dec. 30; sunrise to sunset. Cloudy, foggy, and cold. Ground and water not frozen. One observer on foot; car being used only between points on the refuge. Total hours, about 101/4. Common loon, 11; red-throated loon, 5; horned grebe, 74; great blue heron, 7; Am. bittern, 2; Canada goose, 500; Am. brant, 2700; mallard, 500; black duck, 8000; baldpate, 2500; pintail, 5000; green-winged teal, 50; scaup, 4000 (both species probably present); Am. goldeneye, 150; buffle-head, 80; old-squaw, 300; scoters, 3000 (all 3 species believed present but too far out to distinguish); hooded merganser, 17; redbreasted merganser, 125; turkey vulture, 11; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 5; duck hawk, 2; clapper rail, 3; Am. coot, 5; killdeer, 6; black-bellied plover, 15; greater yellow-legs, 11; sanderling, 1000; great black-backed gull, 3; herring gull, 3000; ringbilled gull, 1500; dovekie, 3; mourning dove, 7; belted kingfisher, 4; flicker, 21; hairy woodpecker, 1; downy woodpecker, 3; horned lark, 78; tree swallow, 7; crow, 16; fish crow, 3; tufted titmouse, 5; brown creeper, 12; Carolina wren, 9; short-billed marsh wren, 1 (seen with glasses at 10 ft.); catbird, 4; myrtle warbler, 1347; meadowlark, 183; boat-tailed grackle, 276; cardinal, 28; savannah sparrow, 97; sharp-tailed sparrow, 31; seaside sparrow, 89; slate-colored junco, 364; white-throated sparrow, 63; fox sparrow, 17; swamp sparrow, 26; song sparrow, 45. Total, 63 species; about 35,325 individuals.— John H. Buckalew.

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109. Emory (Washington Co.), Va. (fields and woods north of town in a.m.; H.S. to Middle Fork of Holston River in p.m.; R.B.S. to ponds and residential areas at Saltville in p.m.; about 1700-2300 ft.; 50% deciduous woods, 10% residential areas, 5% evergreen woods [pine and red cedar], 5% cattail marsh, 30% open fields).-Dec. 24; 7:05 a.m. to 12:20 p.m., 1 p.m. to 5 p.m. Mostly cloudy, with occasional flurries of fine snow during a.m.; ground covered with about 5 inches of old and new snow; wind NE, 12-20 m.p.h.; temp. 22°-34°. Observers separate, but R.B.S. in field only 11/2 hours. Total hours, 10 (on foot); total miles, 12. Mallard, 5; turkey vulture, 6; black vulture, 8; Cooper's hawk, 1; red-tailed hawk, 3; sparrow hawk, 3: killdeer, 6; mourning dove, 15; belted kingfisher, 2; pileated woodpecker, 1; red-bellied woodpecker, 5; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 11; phoebe, 1; horned lark, 15; blue jay, 15; crow, 5; Carolina chickadee, 13; tufted titmouse, 19; whitebreasted nuthatch, 7; brown creeper, 3; winter wren, 3; Carolina wren, 7; mockingbird, 11; bluebird, 18; golden-crowned kinglet, 5; starling, 135; English sparrow, 50; meadowlark, 9; rusty (?) blackbird, 1 (seen with 8x glasses at dusk, apparently flying to roost; may have been a redwing); cardinal, 43; purple finch, 6; goldfinch, 28; towhee, 4; slate-colored junco, 90; tree sparrow, 12; field sparrow, 50; white-crowned sparrow, 17; white-throated sparrow, 5; song sparrow, 46. Total, 41 species; about 688 individuals. (Seen recently: black duck, sharp-shinned hawk, Wilson's snipe, screech owl, barred owl, cedar waxwing, swamp sparrow.)-Henry and Rosa Belle Stevenson.

110. Lexington, Va. (same area as in former years: center of town to point 7 miles north; cedar woods 40%, farmland 20%, scrub 10%, oak woods 20%, town edge 5%, Big Spring Pond 5%).—Dec. 26; 9 a.m. to 5 p.m., hour out for lunch. Cloudy; temp. 37° to 42°; wind N, 20 m.p.h.; 3-4-in. old snow, covered by fresh sleet of day before; river mostly frozen. Five observers together in a.m.; 8 in 2 parties in afternoon. Total hours, 10 (11/2 in car, 81/2 on foot); total miles, 41 (30 in car, 11 on foot). Mallard, 43; black duck, 9; turkey vulture, 24; black vulture, 4; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; sparrow hawk, 4; bob-white, 14 (1 covey); killdeer, 1; rock dove, 33; mourning dove, 12; pileated woodpecker, 4; red-bellied woodpecker, 2; yellowbellied sapsucker, 2; downy woodpecker, 8; phoebe, 3; prairie horned lark, 36; blue jay, 10; crow, 198; Carolina chickadee, 12, tufted titmouse, 4; white-breasted nuthatch, 4; winter wren, 2; Carolina wren, 12; mockingbird, 20; robin, 9; hermit thrush, 1; bluebird, 26; goldencrowned kinglet, 8; migrant shrike, 1; starling,

182; English sparrow, 94; cardinal, 59; gold-finch, 23; junco, 193; tree sparrow, 13; white-crowned sparrow, 2; white-throated sparrow, 43; song sparrow, 11. **Total**, 40 species; 1131 individuals.—J. J. Murray, Robert P. Carroll, Alice Carroll, Bobby Paxton, Joe Magee, Dickson Vardell Murray, Jimmy Murray, Frank Davidson.

111. Richmond, Va. (same area as in 1944 count; open farmland 40%, pine woodlands 17%, deciduous woodlands 15%, city suburbs 10%, open grassy fields 3%, tidal fresh-water marshes 5%).—Dec. 26; 5 a.m. to 5:30 p.m. Cloudy in early morning, clearing about 9 a.m.; wind SW, 6-14 m.p.h.; temp. 34° to 51° F.; snow and ice on ground in sheltered areas; all standing water frozen except small part of Byrd Park lake, James River near Richmond clogged with moving ice but clear at Curles Neck. Five observers in 1 party, breaking up into 2 parties several times. Total hours, 13 (on foot); total miles, 6 (on foot). Canada goose, 600 (est.) mallard, 122; black duck, 3; baldpate, 27; redhead, 1; ring-necked duck, 42; Am. merganser, 40; redbreasted merganser, 6; turkey vulture, 13; marsh hawk, 2; sparrow hawk, 2; bob-white, 5; coot, 160; killdeer, 6; Wilson's snipe, 1; herring gull, 7; ring-billed gull, 285; mourning dove, 23; great horned owl, 1; kingfisher, 1; flicker, 3; pileated woodpecker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 7; northern horned lark, 1200 (partly est., yellow line over eye seen distinctly-F.R.S.); prairie horned lark, 250 (partly est.); blue jay, 16; crow, 37; Carolina chickadee, 28; tufted titmouse, 30; white-breasted nuthatch, 9; brown creeper, 1; winter wren, 1; Carolina wren, 5; mockingbird, 10; bluebird, 24; goldencrowned kinglet, 21; ruby-crowned kinglet, 3; cedar waxwing, 5; loggerhead shrike, 4; star-ling, 600 (est.); myrtle warbler, 12; English sparrow, 16; meadowlark, 41; red-wing, 77; rusty blackbird, 189; grackle, 1; cardinal, 22; purple finch, 7; goldfinch, 30; towhee, 1; savannah sparrow, 3; slate-colored junco, 234; field sparrow, 74; white-throated sparrow, 97; fox sparrow, 3; song sparrow, 28. Total, 60 species; about 4442 individuals. (Seen in area Dec. 28: ruddy duck, 2.)—J. R. Sydnor, Mr. and Mrs. C. E. Smith, J. B. Loughran, F. R. Scott.

112. Asheville, N. C. (from Beaver Lake south to Rosscraggon, and from Dryman Mt. east to Bee Tree Road; open farmland 15%, town suburbs 35%, pine woodland 15%, deciduous woodland 10%, pine and deciduous woodland 10%, lake and stream banks 14%, marsh 1%).—Dec. 29; 7:30 a.m. to 5:30 p.m. Overcast until 9:30 a.m., then scattered clouds until noon, clear in p.m.; temp. 38° to 52° F.; wind NE, 1-7 m.p.h.; ground covered with melting snow and slush; all fresh-water ponds frozen except for very small areas. Unseasonal sleet and ice storm on Dec. 24 followed by noticeable diminution of

birds. Sixty-six observers in 28 parties. Total hours, 113 (110 on foot, 3 in car); total miles, 98 (80 on foot, 18 in car). Mallard, 9; redshouldered hawk, 1; Cooper's hawk, 1; pigeon hawk, 3 (R.H.R., G.H.M.) [no further details given-Ed.1; sparrow hawk, 3; ruffed grouse, 3; bob-white, 36; wild turkey, 1; killdeer, 1 (heard at close range where many have been seen in fall-G.S.T.); mourning dove, 94; screech owl, 1; great horned owl, 1 (8 p.m.); kingfisher, 2; flicker, 26; pileated woodpecker, 5; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 7; downy woodpecker, 70; phoebe, 2; blue jay, 101; crow, 189; chickadee, 240; tufted titmouse, 197; white-breasted nuthatch, 101; red-breasted nuthatch, 18; brown creeper, 16; winter wren, 2; Carolina wren, 85; mockingbird, 19; robin, 24; hermit-thrush, 6; bluebird, 127; blue-gray gnatcatcher, 1 (in garden, recognized by color, action, white-edged tail -O.C.; another on window-ledge but not absolutely recognized-L.M.I.); golden-crowned kinglet, 48; ruby-crowned kinglet, 13; cedar waxwing, 7; starling, 140; myrtle warbler, 77; pine warbler, 4; redstart, 1 (G.L.C.) [no further details given-Ed.]; English sparrow, 577; cardinal, 123; purple finch, 174; redpoll, 2 (reported by D.W.G.); pine siskin, 40; goldfinch, 211; redeyed towhee, 36; junco, 485; savannah sparrow, 7; tree sparrow, 14; chipping sparrow, 32; field sparrow, 65; white-throated sparrow, 84; fox sparrow, 6; song sparrow, 190. Total, 56 species; 3733 individuals. (Seen in Rosscraggon Dec. 24: pileated woodpeckers - D.W.G.) - W. S. Adams, W. A. Angwin, Elsie Angwin, Mary L. Atkins, H. K. Branch, Lillian Burdette, Lon Butler, H. K. Caskey, Mrs. R. T. Cecil, Odessa Chambers, G. L. Clement, Caroline Crowell, Mrs. Fannie Crowell, Miss Decker, Gloria Devore, R. M. Dicosola, Frances Dicosola, John Edmonston, Richard Edmonston, Andrew Ficken, Charles Ficken, Eleanor Field, Vance Field, Dodette W. Grinnell, D. P. Harris, Ray Hill, Annette Hinds, Louise M. Ingersoll, Frances Johnson, Paul T. Knollman, Mrs. E. S. Koon, D. W. Lacy, Nita Lacy, Lucinda Lacy, Miss Lawler, Miss Lineberger, Kenneth Lingerfelt, H. A. Lytle, Nicholas McCabe, Sheila Mc-Cabe, J. N. McCabe, Mrs. J. N. McCabe, Charles McCullough, G. H. Mahy, C. M. Maske, Betty Maske, Mrs. C. A. Maxwell, Mrs. M. F. Meredith, Nancy Meredith, Margaret Millard, Bobby Miller, Jack Mulvaney, Mrs. J. J. Murray, Sophia Redwood, R. H. Rembert, Raphael Rice, Mrs. C. D. Richmond, Bobby Ruiz, Mrs. E. B. Ruiz, Sgt. W. N. Ruiz, G. S. Tennent, W. H. Thorn, Barbara Thorn, Alice Ward, James White, Marcia Williams (Asheville Bird

113. Chapel Hill, N. C. (same area as in last 15 years; oak-hickory climax 30%, lowland thickets and farmland 30%, pine forest 10%, marsh and lake shores 30%).—Dec. 28; 5:30

a.m. to 5:30 p.m. Overcast; low stratus with light continuous rain all day; wind NE, 13-18 m.p.h.; temp. 36° to 48° F.; few ice sheets on lake. Six observers in 4 parties in a.m., 4 observers in 2 parties in p.m. Total miles, 19 (on foot); total hours, (22 on foot). Mallard, 16; black duck, 49; gadwall, 4; green-winged teal, 1; redhead, 1; ring-necked duck, 1; buffle-head, 11; Am. merganser, 4; turkey vulture, 2; ? accipiter, 2; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 1; bob-white, 8; wild turkey, 1; mourning dove, 20; barred owl, 1; flicker, 14; red-bellied woodpecker, 2; redheaded woodpecker, 4; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 8; phoebe, 16; blue jay, 35; crow, 52; Carolina chickadee, 27; titmouse, 29; white-breasted nuthatch, 9; brown-headed nuthatch, 2; brown creeper, 6; Carolina wren, 33; mockingbird, 10; hermit thrush, 5; bluebird, 60; golden-crowned kinglet, 20; ruby-crowned kinglet, 12; Am. pipit, 6; migrant shrike, 2; starling, 37; orangecrowned warbler, 1 (also observed at feeding station during previous week-Mrs. H.W.W.); myrtle warbler, 11; pine warbler, 8; English sparrow, 20; meadowlark, 8; red-wing, 100 (est.); cardinal, 58; purple finch, 2; pine siskin, 20; goldfinch, 76; towhee, 9; junco, 208; field sparrow, 37; white-throated sparrow, 195; fox sparrow, 10; swamp sparrow, 19; song sparrow, 71. Total, 57 species; 1368 individuals. (Seen in area Dec. 27; red-breasted nuthatch, 3; brown thrasher, 2.)-H. T. Odum, J. P. Jones, Mrs. H. W. Walters, M. Whitinghill, Mrs. M. Whitinghill, Mrs. Ove Jensen, P. Lawrence.

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114. Charlotte, N. C. (along Briar Creek adjacent to southeastern city limits; around headwaters of McAlpine Creek, 7 miles southeast of city; Clarkson city garden; pine, gum, poplar woodland 60%, suburbs 25%, farmland 10%, small ponds 5%).—Dec. 30; 7:30 a.m. to 5:30 p.m. Cloudy; wind 1-7 m.p.h.; temp. 44° to 50°. Five observers in 2 parties. Total hours, 10 (9 on foot); total miles, 7 (on foot). Turkey vulture, 4; black vulture, 4; bob-white, 6; mourning dove, 23; flicker, 3; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; downy woodpecker, 2; blue jay, 34; crow, 25; Carolina chickadee, 8; titmouse, 8; red-breasted nuthatch, 2; brown-headed nuthatch, 3; Carolina wren, 5; mockingbird, 8; thrasher, 3; hermit thrush, 1; bluebird, 11; golden-crowned kinglet, 1; ruby-crowned kinglet, 3; shrike, 2; starling, 135; myrtle warbler, 3; pine warbler, 5; English sparrow, 37; meadowlark, 5; cardinal, 21; goldfinch, 6; towhee, 9; savannah sparrow, 6; slate-colored junco, 77; field sparrow, 22; white-throated sparrow, 31; song sparrow, 23. Total, 36 species; 540 individuals.-Mrs. E. O. Clarkson, Mrs. Jack F. Dermid, Jim Layton, Binford Moon, B. Rhett Chamberlain (Mecklenburg Audubon Club).

115. Elkin, N. C. (Klondike Farm; pastures

10%, cultivated fields 30%, oak-hickory forest 40%, pine forest 20%).-Dec. 29; 8 a.m. to 3 p.m. Overcast at start, fair from 9:30 a.m. on; no wind; temp. 35° to 55° F.; ground two-thirds covered with snow. Total hours, 7; total miles, 5 (on foot). Black vulture, 7; bob-white, 17; killdeer, 3; belted kingfisher, 1; flicker, 1; downy woodpecker, 2; phoebe, 1; northern horned lark, 80 (est., yellow throat positively observed on 10 individuals); crow, 40 (est.); Carolina chickadee, 35; tufted titmouse, 10; white-breasted nuthatch, 15; brown creeper, 3; Carolina wren, 13; hermit thrush, 1; bluebird, 7; golden-crowned kinglet, 10; starling, 25 (est.); myrtle warbler, 1; pine warbler, 1; English sparrow, 75 (est.); meadowlark, 75 (est.); cardinal, 15; goldfinch, 10; slatecolored junco, 30; field sparrow, 15; whitethroated sparrow, 4; fox sparrow, 2; song sparrow, 5. Total, 29 species; approximately 504 individuals. (Observed in area Dec. 26: vesper sparrow, 2; Dec. 24: winter wren, 1.-Robert H. Witherington.

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116. Fayetteville, N. C. (city and vicinity; woodland bordering lake 50%, open fields 30%, garden areas 20%).-Dec. 30; 8:30 a.m. to 12:30 p.m., 2:30 to 5:30 p.m. Heavy overcast; temp. 44° to 48°; light breeze. Three observers. Total miles, 13 (8 by car, 5 on foot). Great blue heron, 1; belted kingfisher, 1; flicker, 4; yellow-bellied sapsucker, 2; hairy woodpecker, 1; blue jay, 6; crow, 13; white-breasted nuthatch, 1; red-breasted nuthatch, 4; Carolina wren, 4; mockingbird, 4; brown thrasher, 1; hermit thrush, 4; bluebird, 21; golden-crowned kinglet, 18; ruby-crowned kinglet, 1; cedar waxwing, 18; loggerhead shrike, 2; starling, 2; myrtle warbler, 1; English sparrow, 37; meadowlark, 69; red-wing, 44; cardinal, 7; purple finch, 13; goldfinch, 4; towhee, 4; vesper sparrow, 6; junco, 40; field sparrow, 20; white-throated sparrow, 44; swamp sparrow, 1; song sparrow, 10. Total, 33 species; 408 individuals.-Viril Kelly, Roy Rush, Richard Sloss.

117. Greensboro, N. C. (approximately same region as in last several years, including Pinecroft, Starmount, Municipal golf course, Richardson estate, Greensboro Country Park, Lakes Brandt, Scales, and Richland (New Lake), and Philadelphia, Buffalo, and White Oak ponds; deciduous and mixed woodland 25%, open fields and golf courses 30%, cattail marsh and thicket 15%, small fresh-water lakes 20%, city yards, campuses, and parkways 10%).—Dec. 26; 8 a.m. to 5:30 p.m. Heavy fog until noon, then clear; temp. 33° to 49° F. 2-in. ice on ponds; 4-in. snow week before Christmas. Twenty observers mostly in 9 parties. Total hours, 501/2; total miles, 531/2; (281/2 on foot, 25 by car). Black duck, 2; wood duck, 1; lesser scaup, 7; bufflehead, 1; turkey vulture, 82; black vulture, 7; Cooper's hawk, 1; red-tailed hawk, 2; redshouldered hawk, 3; marsh hawk, 1; sparrow hawk, 3; bob-white, 34; killdeer, 5; Wilson's

snipe, 1; mourning dove, 146; screech owl, 1; kingfisher, 4; flicker, 17; red-bellied woodpecker, 3; red-headed woodpecker, 2; yellow-bellied sapsucker, 15; hairy woodpecker, 4; downy woodpecker, 26; phoebe, 4; horned lark, 5; blue jay, 131; crow, 265; chickadee, 147; tufted titmouse, 74: white-breasted nuthatch, 44; red-breasted nuthatch, 31; brown-headed nuthatch, 3; brown creeper, 4; winter wren, 1; Carolina wren, 56; mockingbird, 82; brown thrasher, 2; robin, 4; hermit thrush, 9; bluebird, 96; golden-crowned kinglet, 20; ruby-crowned kinglet, 25; shrike, 6; starling, 6930 (est.); myrtle warbler, 4; pine warbler, 8; English sparrow, 298; meadowlark, 19; red-wing, 2; cowbird, 1; cardinal, 135; purple finch, 17; goldfinch, 49; towhee, 50; junco, 1255; field sparrow, 235; white-throated sparrow, 339; fox sparrow, 3; swamp sparrow, 3; song sparrow, 234. Total, 60 species; approximately 10,959 individuals. (Seen during week before count: mallard, ring-necked duck, vesper sparrow, Dec. 23; wild turkey, pileated wood-pecker, Dec. 25).—John Carr, Inez Coldwell, Bobby Carroll, Bill Craft, Mrs. Floyd Hugh Craft, Mrs. Robert D. Douglas, Raymond Kaighn, Hewitt Kendrick, Hugh Medford, Hugh Medford, Jr., Mr. and Mrs. Geo. W. Perrett, Robert L. Pyle, Bill and Moses Scarborough, Etta Schiffman, Mrs. Edith Settan, Mrs. R. E. Settan, Archie D. Shaftesbury, George A. Smith (members and guests Piedmont Bird Club).

118. Mattamuskeet National Wildlife Refuge, New Holland, N. C. (same area as in 1940 and subsequent counts; Mattamuskeet refuge and adjacent woods and fields; including public road across the lake; marsh 30%, open water 40%, fields and thickets 20%, pine and cypress woods 10%).—Dec. 29; 7:30 a.m. to 5:30 p.m. Cloudy; ground bare; wind W to NW, approximately 10 m.p.h.; temp. 35° to 59° F. Two observers, 2 until noon, 1 in afternoon. Total hours afield, 10; total miles, 32 (26 by car, 6 on foot). Piedbilled grebe, 2; great blue heron, 9; whistling swan, 1165; Canada goose, 13,165 (partly est.); mallard, 40; black duck, 165; baldpate, 29; pintail, 4200 (partly est.); ruddy duck, 2; hooded merganser, 4; green-winged teal, 16; shoveller, 3; wood duck, 4; turkey vulture, 27; black vulture, 10; sharp-shinned hawk, 2; Cooper's hawk, 3; red-tailed hawk, 2; red-shouldered hawk, 1; bald eagle, 9; marsh hawk, 6; sparrow hawk, 3; bob-white, 22; killdeer, 3; lesser yellow-legs, 6; herring gull, 4; laughing gull, 6; ring-billed gull, 3; mourning dove, 55; belted kingfisher, 2; flicker, 16; red-bellied woodpecker, 2; yellowbellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 1; phoebe, 2; wood pewee, 2; tree swallow, 22; crow, 45; fish crow, 14; Carolina chickadee, 4; Carolina wren, 4; mockingbird, 5; catbird 9; brown thrasher, 6; robin, 150; hermit thrush, 3; cedar waxwing, 16; starling, 75; myrtle warbler, 445; English sparrow, 15; meadowlark, 32; red-wing, 2220 (partly

est.); purple grackle, 56; cardinal, 10; goldfinch, 6; red-eyed towhee, 7; slate-colored junco, 5; tree sparrow, 4; field sparrow, 3; white-throated sparrow, 17; fox sparrow, 7; swamp sparrow, 5; song sparrow, 3. Total, 64 species; about 22,183 individuals.—Willie G. Cahoon, Edward J. McKinney.

119. Mt. Olive, N. C. (Mt. Olive to Seven Springs; mixed woods 35%, small ponds 5%, fields and pastures 50%, residential area 10%). -Dec. 30. Cloudy; wind S, 3-5 m.p.h.; temp. 40° to 46°; grain fields bare; water open. Two observers, mostly together. Total hours, 8 (3 by car, 5 on foot); total miles, 35 (29 by car, 6 on foot). Ring-necked duck, 6; turkey vulture, 3; black vulture, 5; sharp-shinned hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 3; sparrow hawk, 4; bob-white, 6; killdeer, 5; mourning dove, 14; kingfisher, 1; flicker, 4; red-bellied woodpecker, 5; red-headed woodpecker, 3; yellow-bellied sapsucker, 1; downy woodpecker, 3; phoebe, 1; blue jay, 12; crow, 2; Carolina chickadee, 9; tufted titmouse, 7; white-breasted nuthatch, 1; Carolina wren, 5; mockingbird, 11; catbird, 2; brown thrasher, 1; robin, 16; hermit thrush, 3; bluebird, 15; golden-crowned kinglet, 4; ruby-crowned kinglet, 2; shrike, 11; starling, 40 (est.); myrtle warbler, 60 (est.); English sparrow, 200 (est.); meadowlark, 54; red-wing, 75 (est.); cardinal, 13; purple finch, 12; goldfinch, 14; towhee, 10; slate-colored junco, 40 (est.); field sparrow, 20 (est.); white-throated sparrow, 40 (est.); fox sparrow, 2; song sparrow, 33. Total, 47 species; approximately 781 individuals.-R. P. Holmes II. R. P. Holmes III.

120. Raleigh, N. C. (practically same area as previous counts; lakes and small ponds 40%, mixed pine and deciduous woodland 15%, deciduous woodland 25%, pine woodland 10%, open fields 10%).-Dec. 26; 8:30 a.m. to 5:30 p.m. Cloudy until 10:30 a.m., fair rest of day; wind NW, 1-12 m.p.h. in a.m., calm in p.m.; temp. 40° to 60° ; ground bare; water open, except for some ice in sheltered places. Fifteen observers in 5 parties. Total hours, 26 (23 on foot, 3 by car); total miles, 35 (27 on foot, 8 by car). Pied-billed grebe, 1; great blue heron, 3; mallard, 6; black duck, 6; gadwall, 1; redhead, 2; ring-necked duck, 80; lesser scaup, 20; buffle-head, 3; ruddy duck, 2; hooded merganser, 19; turkey vulture, 16; black vulture, 2; sharp-shinned hawk, 2; Cooper's hawk, 3; redtailed hawk, 3; red-shouldered hawk, 3; marsh hawk, 1: sparrow hawk, 4: bob-white, 9: killdeer, 6; woodcock, 1; mourning dove, 33; kingfisher, 4; flicker, 16; red-bellied woodpecker, 3; red-headed woodpecker, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 2; blue jay, 38; crow, 46; chickadee, 43; tufted titmouse, 21; white-breasted nuthatch, 2; brown-headed nuthatch, 5; brown creeper, 1; winter wren, 2; Carolina wren, 33; mockingbird, 12; brown thrasher, 1; robin, 6; hermit thrush, 4; bluebird, 11; golden-crowned kinglet, 42; ruby-crowned kinglet, 8; cedar waxwing, 10; shrike, 6; starling, 281; myrtle warbler, 8; pine warbler, 4; palm warbler, 5; English sparrow, 3; meadowlark, 37; cardinal, 20; purple finch, 16; goldfinch, 13; towhee, 29; junco, 185; field sparrow, 32; white-throated sparrow, 12, fox sparrow, 1; song sparrow, 112. Total, 63 species; 1413 individuals.—D. L. Wray, C. S. Brimley, F. B. Meacham, E. W. Winkler, Mr. and Mrs. R. W. Green, G. M. Garren, C. H. Bostian, Roxie and Grimmer Simpson, Norman McCulloch, Robt. Cooper, Clyde Bryan, Miss V. Pickell, Jimmy McCulloch.

121. Washington, N. C. (same area as covered in previous years: Pamlico River shore and north along borders of fields, swamps, and hardwood stands bordering Runyon's Creek, Pioneer's Bluff woods; river shore 25%, field borders and hedgerows 60%, open fields 5%, mature deciduous and pine woods 10%).-Dec. 26; 8 a.m. to 1 p.m., 2:30 to 5:30 p.m. Fair; temp. 46° to 56°; wind SW, 8-12 m.p.h. in a.m., decreasing in p.m.; SE storm warnings up in a.m.; ground bare; water open. Total hours, 8 (on foot); total miles, 8 (on foot). Black vulture, 1; Cooper's (?) hawk, 2; bob-white, 1; killdeer, 11; ring-billed gull, 30; mourning dove, 28; barred owl, 1; flicker, 6; red-bellied woodpecker, 3; downy woodpecker, 2; phoebe, 3; horned lark, 30; blue jay, 3; crow, 8; Carolina chickadee, 1; tufted titmouse, 5; nuthatch (sp.?), 1; brown creeper 1; Carolina wren, 15; mockingbird, 2; robin, 45; hermit thrush, 2; goldencrowned kinglet, 3; ruby-crowned kinglet, 2; loggerhead shrike, 3; starling, 13; myrtle warbler, 61; palm warbler, 2; English sparrow, 37; meadowlark, 160; rusty blackbird, 10; cardinal, 4; goldfinch, 6; towhee, 11; savannah sparrow, 5; junco, 82; chipping sparrow, 2; field sparrow, 6; white-throated sparrow, 85; swamp sparrow, 1; song sparrow, 25. Total, 41 species; 719 individuals .- J. D. Biggs.

122. Wilmington (New Hanover Co.), N. C. (Greenfield Lake; Greenfield to Wrightsville Beach in vicinity of Masonboro and Wrightsville Sounds; Winter Park; pine woodland 80%, pastures 5%, lake 10%, salt marsh 5%).-Dec. 30. Overcast with fog, clearing somewhat in p.m.; wind variable, 10 m.p.h.; temp. 57° to 48°; ground wet and bare; water open. Four observers in 2 parties. Total hours, 91/2 (on foot); total miles, 25 (6 by foot, 19 by car). Piedbilled grebe, 4; cormorant, 3; great blue heron, 1; Am. egret, 8; baldpate, 50 (est.); ring-necked duck, 6; lesser scaup, 1; red-shouldered hawk, 1; bob-white, 11; coot, 175 (est.); semipalmated plover, 2; killdeer, 15; black-bellied plover, 1; greater yellow-legs, 5; semipalmated sandpiper, 80 (est.); sanderling, 45; herring gull, 4; ringbilled gull, 25; tern (sp.?), 2; mourning dove, 11; belted kingfisher, 1; flicker, 7; yellow-bellied sapsucker, 2; downy woodpecker, 3; phoebe, 2: blue jay, 23; crow, 20; chickadee, 10; tufted titmouse, 20; red-breasted nuthatch, 10; brownheaded nuthatch, 20; house wren, 1; Carolina wren, 13; short-billed marsh wren, 1; mockingbird. 26: brown thrasher, 12; robin, 35 (est.); hermit thrush, 8; bluebird, 16; ruby-crowned kinglet, 25 (est.); Am. pipit, 25 (est.); loggerhead shrike, 10; starling, 55; myrtle warbler, 700 (est.); pine warbler, 150 (est.); English sparrow, 200 (est.); meadowlark, 30; red-wing, 200 (est.); cardinal, 20; purple finch, 4; goldfinch, 12; towhee, 22; savannah sparrow, 10; junco, 75 (est.); chipping sparrow, 100 (est.); field sparrow, 15; white-throated sparrow, 34; fox sparrow, 9; swamp sparrow, 50 (est.); song sparrow, 26. Total, 60 species; about 2452 individuals.-Mrs. Cecil Appleberry, Mrs. W. C. Mebane, Gregor Rohwer, Mrs. Gregor Rohwer.

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123. Windom, N. C. (farms of L. H. Hutchins, Mack Silver, Mrs. C. P. Gibson, and adjacent territory; open farmland 50%, white pine woodland 2%, pastures 18%, deciduous forests 30%).-Dec. 27; 8 a.m. to dusk. Fair in a.m., cloudy in p.m.; temp. 30° to 42° F.; calm. Seven observers in 2 parties. Total hours, 16; total miles, 12 (on foot). Cooper's hawk, 1; bob-white, 1; blue jay, 33; crow, 57; chickadee, 1; tufted titmouse, 9; Carolina wren, 4; blue-bird, 12; starling, 14; English sparrow, 156; meadowlark, 4; cardinal, 31; goldfinch, 25; redeyed towhee, 4; junco, 36; field sparrow, 55; white-throated sparrow, 3; fox sparrow, 1; song sparrow, 96. Total, 19 species; 543 individuals. -James Hutchins, Roosevelt Hughes, Paul Hughes, Philip Styles, J. C. Styles, Betty Sue Gibson, Mrs. C. P. Gibson.

124. Winston-Salem, N. C. (last year's area extended to include Reynolda Bird Sanctuary, city water shed, city parks, residential areas, Yadkin River, lakes and farmland; wooded areas 30%, open country and water 70%).-Dec. 27; 9 a.m. to 4 p.m. Clear to overcast; 5-in. crusted snow on ground; light wind; temp. 51°. Eleven observers in 5 parties. Total hours, 271/2; total miles, 751/2 (12 on foot, 631/2 by car). Great blue heron, 1; mallard, 3; ring-necked duck, 4; turkey vulture, 12; black vulture, 6; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 2; mourning dove, 27; flicker, 4; redbellied woodpecker, 1; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; downy woodpecker, 9; phoebe, 1; blue jay, 17; crow, 14; Carolina chickadee, 14; titmouse, 11; whitebreasted nuthatch, 6; red-breasted nuthatch, 3; brown creeper, 1; Carolina wren, 8; mockingbird, 13; robin, 2; hermit thrush, 1; bluebird, 19; golden-crowned kinglet, 1; shrike, 1; starling, 256; English sparrow, 122; meadowlark, 23; purple grackle, 49; cardinal, 31; purple finch, 1; goldfinch, 10; red-eyed towhee, 11; slatecolored junco, 86; field sparrow, 34; whitethroated sparrow, 55; swamp sparrow, 2; song

sparrow, 40. Total, 42 species; 905 individuals. (Dec. 23: Canada goose, 5000; not seen after sleet storm of Dec. 25.)—Charles H. Babcock, Charles Babcock, Charity Rothrock, Mrs. Wm. H. Chance, Rev. Douglass Rights, Burton Rights, Edward Shamel, Rev. R. C. Stubbins, James L. Stephenson, Bill Anderson, Henry Magie.

125. Charleston, S. C. (Bull's Island, adjacent waters and marshes, mainland opposite, back to Wando River, as in preceding years; farmland 20%, fresh-water ponds and wooded swamps 25%, woods, mixed and pine 25%, salt-water creeks, marshes, and flats 25%, dunes and ocean front 5%).-Dec. 27; dawn to dusk. Fair in morning, overcast in afternoon; temp. 37° to 61° F.; wind NNE to NNW, 4-8 m.p.h.; woods somewhat damp, many rain-water ponds on Bull's Island. Fifteen observers in 4 parties (1 additional observer in p.m.). Total hours, 24 (18 on foot, 4 by car, 2 in boat); total miles, 81 (18 on foot, 57 by car, 6 in boat). Common loon, 4; red-throated loon, 2; horned grebe, 10; pied-billed grebe, 7; cormorant, 37; great blue heron, 20; Am. egret, 2; snowy egret, 9; Louisiana heron, 7; little blue heron, 7; black-crowned night heron, 1; Am. bittern, 2; mallard, 71; black duck, 112; gadwall, 33; baldpate, 9; pintail, 63; green-winged teal, 14; blue-winged teal. 21; shoveller, 42; wood duck, 8; ring-necked duck, 126; canvas-back, 45; scaup, 35; bufflehead, 34; Am. scoter, 9; ruddy duck, 61; hooded merganser, 1; red-breasted merganser, 19; turkey vulture, 27; black vulture, 38; sharpshinned hawk, 4; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 15; bald eagle, 9; marsh hawk, 13; sparrow hawk, 2; bob-white, 4; turkey, 6; clapper rail, 4; Florida gallinule, 6; coot, 455; oyster-catcher, 304; semipalmated plover, 12; killdeer, 4; black-bellied plover, 35; ruddy turnstone, 5; woodcock, 1; Wilson's snipe, 2; long-billed curlew, 2 (Waring Hills; several on refuge since October); Hudsonian curlew, 5; willet, 23; greater yellow-legs, 23; lesser yel-low-legs, 3; least sandpiper, 11; red-backed sandpiper, 12; dowitcher, 87; semipalmated sandpiper, 46; western sandpiper, 4; marbled godwit, 7; sanderling, 3; herring gull, 89; ring-billed gull, 58; laughing gull, 4; Caspian tern, 1; mourning dove, 67; barred owl, 1; belted kingfisher, 13; flicker, 22; pileated woodpecker, 14; red-bellied woodpecker, 16; yellow-bellied sapsucker, 9; hairy woodpecker, 4: downy woodpecker, 16; red-cockaded woodpecker, 1; phoebe, 14; tree swallow, 26; blue jay, 27; crow, 70; fish crow, 13; Carolina chickadee, 38; tufted titmouse, 12; white-breasted nuthatch, 2; brown-headed nuthatch, 3; brown creeper, 3; house wren, 6; winter wren, 3; Carolina wren, 29; short-billed marsh wren, 4; mockingbird, 16; catbird, 4; brown thrasher, 8; robin, 312+; hermit thrush, 27; bluebird, 71; blue-gray gnatcatcher, 3; golden-crowned kinglet, 26; ruby-crowned kinglet, 55; pipit, 71; cedar wax-

wing, 10; shrike, 15; starling, 17; blue-headed vireo, 1; myrtle warbler, 492+; yellow-throated warbler, 1; pine warbler, 27; western palm warbler, 12; yellow-throat, 7; English sparrow, 7; meadowlark, 83; red-wing, 255+; rusty blackbird, 30; boat-tailed grackle, 3; Florida (?) grackle, 3; cardinal, 43; purple finch, 10; goldfinch, 132; red-eyed towhee, 33; white-eyed towhee, 1; savannah sparrow, 27; sharp-tailed sparrow, 4; seaside sparrow, 2; slate-colored junco, 72; chipping sparrow, 172+; field sparrow, 80+; white-throated sparrow, 104; fox sparrow, 21; swamp sparrow, 35; song sparrow, 105; vesper sparrow, 9. Total, 131 species; about 4958 individuals.-Mrs. L. S. Barrington, E. B. Chamberlain, Larry Crawford, Peter Gething, Harold Guerard, Waring Hills, Bob Holmes III, H. S. Peters, Mr. and Mrs. Alexander Sprunt, Jr., Alexander Sprunt IV, E. A. Williams, John Yrizarry, Newton Seebeck, Elizabeth Simons, Patsy Peters.

126. Columbia, S. C. (7 miles west of Columbia, Hendrix's pond, Fisher's pond, Shull's pond, Horse Shoe Lake, West Columbia, State Capitol grounds to point 3 miles east of center of town; urban territory 2%, deciduous woods 26%, pine woods 41%, lake shores 10%, broom fields 10%, cattail marsh 3%, cultivated fields 8%).-Dec. 28; 8 a.m. to dusk. Cloudy, mist in a.m. changing to rain in p.m.; wind E, 1-7 m.p.h.; temp. 44° to 46°. Seven observers together. Total miles, 30 (20 by car, 10 by foot). Pied-billed grebe, 3; ring-necked duck, 38; turkey vulture, 6: black vulture, 3: Cooper's hawk. 1; hawk (unidentified), 1 (size of osprey; stood still in air beating wings; visibility poor); coot, 15; rock dove, 2; mourning dove, 7; flicker, 17; red-bellied woodpecker, 2; downy woodpecker, 1; phoebe, 3; blue jay, 11; crow, 12; Carolina chickadee, 9; tufted titmouse, 9; Carolina wren, 6; mockingbird, 9; catbird, 1; brown thrasher, 13: robin, 79; hermit thrush, 7; bluebird, 26; ruby-crowned kinglet, 19; cedar waxwing, 24; starling, 1312; pine warbler, 15; palm warbler, 1; yellow-throat, 2; English sparrow, 1037; rusty blackbird, 87; cowbird, 600; cardinal, 22; red-eyed towhee, 13; vesper sparrow, 2; slate-colored junco, 34; chipping sparrow, 32; whitethroated sparrow, 16; song sparrow, 24. Total, 40 species; about 3521 individuals. The numbers of starlings, cowbirds, rusty blackbirds, and English sparrows were based partly upon estimates as the birds came to roost in magnolias on the State Capitol grounds; the estimates are conservative.-Gilbert J. Bristow, Annie W. Bristow, Louise Bristow, Mrs. G. E. Charles, Essie Mae Charles, Mrs. P. B. Hendrix, Mrs. B. S. Meeks.

127. Santee National Wildlife Refuge, Manning, S. C. (Jack's Creek, Dingle, Bluff Land, and Potato Creek ponds of refuge, points along Santee reservoir shore from Scott's Lake to Taw-Caw, farmland from Summerton to reser-

voir shore-all in Clarendon Co.; census not comparable to last year's because of rain-flooded roads and earlier hurricane damage to 2 of ponds; ponds 30%, reservoir edge 20%, cultivated fields 35%, abandoned fields 10%, secondgrowth mixed woods 5%).-Dec. 29. Overcast: temp. 40° to 49°; wind NW, 1-12 m.p.h.; 1-in. rainfall in preceding 15 hours; fluctuating reservoir elev. 73 ft. a.s.l. Seven observers in 1 party. Total hours, 13 (9 on foot, 4 by car); total miles, 50 (15 on foot, 35 in car). Piedbilled grebe, 6; great blue heron, 20; blackcrowned night heron, 2; Am. bittern, 2; Canada goose, 40; mallard, 81; black duck, 27; gadwall, 300 (est.); baldpate, 110; pintail, 125; greenwinged teal, 24; blue-winged teal, 3; shoveller, 60; ring-necked duck, 257; lesser scaup, 9; buffle-head, 5; ruddy duck, 6; turkey vulture, 6; black vulture, 9; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; redshouldered hawk, 6; bald eagle, 5; marsh hawk, 11; duck hawk, 1; sparrow hawk, 4; bob-white, 27; coot, 635 (est.); killdeer, 3; greater yellowlegs, 2; lesser yellow-legs, 2; least sandpiper, 5; red-backed sandpiper, 1 (both sandpipers observed at 20 ft.); mourning dove, 270 (est.); ground dove, 1; belted kingfisher, 2; flicker, 5; pileated woodpecker, 1; red-bellied woodpecker, 2; yellow-bellied sapsucker, 1; downy woodpecker, 2; phoebe, 9; blue jay, 12; crow, 35; Carolina chickadee, 9; tufted titmouse, 6; house wren, 2; winter wren, 2; Bewick's wren, 1 (E.B.C. and B.R.C.); Carolina wren, 8; mockingbird, 4; brown thrasher, 9; hermit thrush, 6; bluebird, 20; golden-crowned kinglet, 9; rubycrowned kinglet, 15; pipit, 7; cedar waxwing, 5; shrike (sp. ?), 8; starling, 5; orange-crowned warbler, 1; pine warbler, 3; western palm warbler, 8; English sparrow, 47; meadowlark, 139; red-wing, 14; Florida (?) grackle, 1; cardinal, 31; goldfinch, 14; red-eyed towhee, 26; savannah sparrow, 29; vesper sparrow, 47; junco, 43; chipping sparrow, 2; field sparrow, 58; white-throated sparrow, 73; fox sparrow, 19; swamp sparrow, 3; song sparrow, 79. Total, 80 species; approximately 2892 individuals.- W. P. Baldwin, B. R. Chamberlain, E. B. Chamberlain, Jim Layton, Binford Moon, H. S. Peters, Patsy Peters.

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128. Spartanburg, S. C. (center of town to points 6 miles east; Ezell woods, Greenlawn Gardens, Glendale, Justawee Farm, Duncan Park; town suburbs 25%, mixed woodlands 70%, fresh-water ponds and marshes 5%).—Dec. 30. Mostly fair (following 10 days of snow, heavy sleet, and rain which made open fields and marshlands inaccessible); temp. 38° to 54°; wind NW, 0-10 m.p.h. Four observers together. Total hours, 8 (7 on foot, 1 in car, from point to point); total miles, 28 (8 on foot, 20 by car). Great blue heron, 1; turkey vulture, 5; black vulture, 10; red-shouldered hawk, 1; sparrow hawk, 2; bob-white, 6; killdeer, 1; mourning dove, 2; flicker, 6; red-bellied woodpecker, 3:

red-headed woodpecker, 3; yellow-bellied sapsucker, 3; downy woodpecker, 5; phoebe, 2; blue jay, 65; crow, 15; Carolina chickadee, 6; tufted titmouse, 8; red-breasted nuthatch, 1; brown creeper, 1; Carolina wren, 13; mockingbird, 33; brown thrasher, 2; hermit thrush, 2; bluebird, 15; golden-crowned kinglet, 10; rubycrowned kinglet, 8; loggerhead shrike, 6; starling, 2000+; myrtle warbler, 2; English sparrow, 50; meadowlark, 5; cardinal, 25; purple finch, 12; goldfinch, 26; red-eyed towhee, 30; slatecolored junco, 71; field sparrow, 50; whitethroated sparrow, 80; song sparrow, 11. **Total**, 40 species; about 2597 individuals.—Gabriel Cannon, Louisa Carlisle, Ruth Crick, Margaret Hammond.

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129. Atlanta, Ga. (South River, Oglethorpe University [Lake Phoebe], water works basins, East Lake, Emory University campus, Candler property [lake], Fernbank Forest, Piedmont Park, Collier Woods; open farmlands 50%, pine and deciduous woodlands 40%, lakes and borders 10%).-Dec. 23. Light clouds; temp. 40° to 37° F.; wind, 8-10 m.p.h.; most lakes frozen. One party, 3 persons, 9 hours; one party, 3 persons, 9 hours; one party, 3 persons, 21/2 hours. Total hours, 201/2 (mostly on foot); total miles, about 12. Wood duck, 2; turkey vulture, 1; black vulture, 1; Cooper's hawk, 3; red-shouldered hawk, 1; sparrow hawk, 3; bob-white, 34 (2 coveys); killdeer, 40; Wilson's snipe, 7; mourning dove, 79; belted kingfisher, 3; red-headed woodpecker, 5; flicker, 21; red-bellied woodpecker, 4; yellow-bellied sapsucker, 5; hairy woodpecker, 1; downy woodpecker, 16; phoebe, 2; blue jay, 81; crow, 77; chickadee, 12; tufted titmouse, 17; white-breasted nuthatch, 9; brownheaded nuthatch, 5; brown creeper, 8; winter wren, 1; Carolina wren, 16; mockingbird, 22; brown thrasher, 7; robin, 6; hermit thrush, 5; bluebird, 46; golden-crowned kinglet, 52; rubycrowned kinglet, 8; pipit, 12; loggerhead shrike, 4; starling, 88; myrtle warbler, 4; pine warbler, 6; palm warbler, 1; English sparrow, 40; meadowlark, 8; red-wing, 4000 (est.); rusty blackbird, 1300 (est.); grackle, 125; cardinal, 59; purple finch, 92; goldfinch, 95; red-eyed towhee (subsp.?), 49; savannah sparrow, 38; junco (subsp.?), 42; chipping sparrow, 9; field sparrow, 49; white-throated sparrow, 170; fox sparrow, 5; swamp sparrow, 38; song sparrow, 92. Total, 57 species and subspecies; 6926 individuals. (Seen in area, Dec. 24: Bewick's wren, 1; Dec. 26: scaup (sp. ?), 3; red-breasted merganser, 1.)-William W. Griffin, John Outler III, Jimmy Major, Terry McGowan, Harry Greene, Sgt. Richard Nicholsen, Mrs. Lewis Gordon, Ed Collum, Tom Collum, Ray C. Werner, Mrs. H. M. Daniel, Mrs. O. C. Waters, Dick Giblin (Atlanta Bird Club).

130. Piedmont National Wildlife Refuge, Round Oak, Ga. (point on Ocmulgee River 1 mile northwest of Juliette to Round Oak via

refuge headquarters, Wayside, Bradley, Hungerford's Lake, retracking to Round Oak where party split into 2 groups, one of which went to Five Points lake via Wayside and the other to the Middlebrook's bridge via Hillsboro and returned to headquarters afoot via Falling Creek; second growth pine woodland 15%, ponds and marsh 10%, meadow and pastureland 50%, cultivated land 15%, abandoned farmland 10%) .-Dec. 23; 6:30 a.m. to 5:30 p.m. Cloudy; wind SW, 2-5 m.p.h.; temp. 39° to 58°. One observer until 11:30 a.m., then joined by 3 others; party worked as a group until 3 p.m. when it split into 2 groups. Total hours afield, 12 (9 on foot, 3 by car); total party miles, 60 (10 afoot, 50 by car). Great blue heron, 1; mallard, 1; turkey vulture, 10; black vulture, 40; sharpshinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 4; marsh hawk, 14; sparrow hawk, 4; bob-white, 17 (2 coveys of 5 and 12); mourning dove, 115; screech owl, 2; barred owl, 1; belted kingfisher, 1; flicker, 5; pileated woodpecker, 1; red-bellied woodpecker, 7; yellowbellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 6; red-cockaded woodpecker, 2; blue jay, 25; crow, 32; Carolina chickadee, 17; tufted titmouse, 5; brown-headed nuthatch, 4; brown creeper, 5; winter wren, 6; Bewick's wren, 3; Carolina wren, 10; long-billed marsh wren, 2; mockingbird, 15; catbird, 1; brown thrasher, 7; robin, 105; hermit thrush, 12; bluebird, 32; golden-crowned kinglet, 10; ruby-crowned kinglet, 5; cedar waxwing, 15; loggerhead shrike, 10; starling, 5; blue-headed vireo, 2; myrtle warbler, 2; pine warbler, 6; palm warbler, 3; yellow-throat, 1; English sparrow, 85; meadowlark, 100; red-wing, 18; cardinal, 20; purple finch, 8; goldfinch, 35; towhee, 13; Bachman's sparrow, 1; slate-colored junco, 120; chipping sparrow, 130; field sparrow, 80; white-throated sparrow, 41; swamp sparrow, 20; song sparrow, 30. Total, 61 species; 1278 individuals. (Seen in area Dec. 24: phoebe, 1; Dec. 25: red-shouldered hawk, 1.)-Raymond J. Fleetwood, James Silver, Roy Woods, Roy A. Chapman.

131. Sherwood and Birdsong Plantations, (Grady Co.), Ga. (within 1500 acres; open fields and pastures 50%, pinelands and mixed hardwoods 30%, gum swamp, and 5 ponds ranging in size from 11/2 to 6 acres 20%; same route as in previous years but 4 of the ponds newly constructed).-Dec. 26; before dawn to after dusk. Fair; temp. 42° to 50° F.; wind W, 0-12 m.p.h. Total hours, 121/2 (on foot); total miles, 15 (on foot). Pied-billed grebe, 1; double-crested cormorant, 3; great blue heron, 1; egret, 1; baldpate, 7; wood duck, 43; redhead, 2; mallard, 1; ring-necked duck, 15; lesser scaup, 22; turkey vulture, 9; black vulture, 18; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 6; red-shouldered hawk, 4; marsh hawk, 1; duck hawk, 1; sparrow hawk, 2; bob-white, 18 (1 covey); wild turkey, 31; killdeer, 40; mourning dove, 121; great horned owl, 2 (heard); barred owl. 4 (heard); belted kingfisher, 2; flicker, 18: pileated woodpecker, 5: red-bellied woodpecker, 14; red-headed woodpecker, 7; yellowbellied sapsucker, 6; downy woodpecker, 7; phoebe, 11; blue jay, 22; crow, 17; chickadee, 9; tufted titmouse, 10; white-breasted nuthatch, 5; brown-headed nuthatch, 9; brown creeper, 4; Carolina wren, 14; mockingbird, 12; brown thrasher, 10; robin, 132 (partly est.); hermit thrush, 6; bluebird, 36; ruby-crowned kinglet, 12; pipit, 25; loggerhead shrike, 3; blue-headed vireo, 1; black and white warbler, 2; myrtle warbler, 115 (partly est.); pine warbler, 16; palm warbler, 30; yellow-throat, 2; meadowlark, 24; red-wing, 157 (partly est.); rusty blackbird, 46; grackle, 6; cardinal, 44; goldfinch, 36; towhee (both red-eyed and Howell's), 42; vesper sparrow, 48; junco, 16; chipping sparrow, 69; field sparrow, 10; white-throated sparrow, 56; fox sparrow, 1; swamp sparrow, 3; song sparrow, 6. Total, 70 species; about 1482 individuals. -Herbert L. Stoddard.

132. Daytona Beach, Fla. (peninsula, on beach, and along river road from Golf Blvd. to Inlet; mainland 7 miles west on Deland Road to second bridge beyond swamp; from Cypress St. south to New Smyrna; lagoons 33%, pinelands 33%, beach 20%, open fields 7%, scrub 7%).-Dec. 28; 6:45 a.m. to 5:30 p.m. Fair until late p.m., then showers; temp. 61° to 72°; wind SW, in a.m. less than 1 m.p.h.; in p.m. 8-12 m.p.h. Nine observers in 3 parties. Total hours, 15 (8 on foot, 7 by car); total miles, 77 (69 by car, 8 on foot). Common loon, 1; horned grebe, 1; pied-billed grebe, 6; brown pelican, 290; Florida cormorant, 235; Ward's heron, 11; Am. egret, 36; snowy egret, 7; Louisiana heron, 101; little blue heron, 114; green heron, 1; blackcrowned night heron, 1; Florida duck, 1; lesser scaup, 236; red-breasted merganser, 8; turkey vulture, 3; black vulture, 80; red-shouldered hawk, 2; marsh hawk, 1; osprey, 1; sparrow hawk, 7; killdeer, 1; black-bellied plover, 1; ruddy turnstone, 117; spotted sandpiper, 1; knot, 196; least sandpiper, 5; sanderling, 210; herring gull, 148; ring-billed gull, 594; laughing gull, 540; Bonaparte's gull, 29; Forster's tern, 84; royal tern, 283; black skimmer, 340; mourning dove, 13; ground dove, 1; kingfisher, 25; flicker, 4; red-bellied woodpecker, 7; yellow-bellied sapsucker, 2; downy woodpecker, 2; phoebe, 15; tree swallow, 35; blue jay, 6; Florida jay, 3; crow, 4; fish crow, 190; tufted titmouse, 4; house wren, 11; Carolina wren, 3; mockingbird, 44; catbird, 5; brown thrasher, 3; robin, 530; bluebird, 15; blue-gray gnatcatcher, 2; ruby-crowned kinglet, 4; cedar waxwing, 5; logger-head shrike, 11; white-eyed vireo, 2; orangecrowned warbler, 1; myrtle warbler, 238; yellow-throated warbler, 1; pine warbler, 4; western palm warbler, 26; yellow-throat, 3; English sparrow, 44; meadowlark, 23; red-wing, 20; purple grackle, 4; cardinal, 6; goldfinch, 3;

towhee, 8; savannah sparrow, 20; chipping sparrow, 10; field sparrow, 3; song sparrow, 4. Total, 78 species; about 5056 individuals. (Seen in area Dec. 30: Carolina chickadee, 2; white-breasted nuthatch, 1.)—F. B. Rich, Mr. and Mrs. H. F. Kortheuer, Mrs. J. W. Remer, Mrs. L. C. Trench, Eva M. Porter, Mary A. Walbran, Elizabeth L. Mead, Rosella S. Ames (Halifax River Bird Club).

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133. Jacksonville, Fla. (a heavily wooded lot, 135 x 140 ft., 3 miles southwest of city; sweet gum, hackberry, live oak, laurel oak, shag-bark hickory, long-leaf pine, wild cherry, bamboo, fern, scrub palmetto).-Dec. 23; dawn to dusk, Cloudy; temp. 50°; wind NE veering to N. 8-12 m.p.h. Total hours, 101/2. Turkey vulture, 1; flicker, 1; red-bellied woodpecker, 2; blue jay, 5; crow, 1; house wren, 1; mockingbird, 1; brown thrasher, 2; robin, 13; hermit thrush, 1; blue-gray gnatcatcher, 1; cedar waxwing, heard; loggerhead shrike, 1; white-eyed vireo, 1; yellow-throated vireo, 1 (imm. 9); blue-headed vireo, 2; cardinal, 3; goldfinch, 7; white-throated sparrow, 4. Total, 19 species; 48 individuals .-Reg. R. McKay.

134. Monroe, Fla. (same territory as in 1943: 15 miles along south loop of Tamiami Trail in Monroe Co., and 15 somewhat parallel miles on trail eastward from Monroe in Collier and Dade Cos.) — Dec. 27; 6:45 a.m. to 4 p.m. Dense fog to 9:30 a.m., clear to slightly cloudy rest of day; temp. 68° to 75°; no wind in a.m., E, 5 m.p.h. in p.m. Two observers in 2 parties on foot in a.m.; 1 party in car in p.m. Total hours, 131/4 (7 on foot, 61/4 in car with frequent stops); total miles, 30 (8 on foot, 22 in car). Pied-billed grebe, 5; cormorant, 1; water-turkey, 6; Ward's heron, 17; Am. egret, 167; snowy egret, 7; Louisiana heron, 3; little blue heron, 227; green heron, 4; black-crowned night heron, 2; Am. bittern, 1; wood ibis, 14; white ibis, 191; Florida duck, 2; lesser scaup, 1; turkey vulture, 154; black vulture, 15; sharp-shinned hawk, 1; red-shouldered hawk, 8; marsh hawk, 1; osprey, 1; sparrow hawk, 4; limpkin, 2; king rail, 1; sora, 1; black rail, 1; Florida gallinule, 5; coot, 3; barred owl, 5; ruby-throated hummingbird, 9; belted kingfisher, 35; flicker, 7; pileated woodpecker, 3; red-bellied woodpecker, 10; downy woodpecker, 4; crested flycatcher, 7; phoebe, 17; blue jay, 3; crow, 12; tufted titmouse, 13; house wren, 14; Carolina wren, 21; mockingbird, 12; catbird, 5; robin, 58; bluebird, 9; bluegray gnatcatcher, 27; loggerhead shrike, 2; white-eyed vireo, 6; blue-headed vireo, 2; black and white warbler, 1; myrtle warbler, 86; pine warbler, 3; prairie warbler, 2; western palm warbler, 43; oven-bird, 1; yellow-throat, 38; meadowlark, 6; red-wing, 16; boat-tailed grackle, 14; purple grackle, 222; cardinal, 14; goldfinch, 36; Henslow's sparrow, 4 (olive head. reddish wings-R.W.) swamp sparrow, 1, Total, 65 species and subspecies; 1613 individuals.-L. A. Stimson, R. A. Woodmansee.

135. Pensacola, Fla. (same territory as for many years, with better coverage than ever before because of deployment of 3 parties for first time; city and suburban areas 12%, open sound and bay and bay shores [largely by car] 15%, scrub oak barrens 4%, mature live oak and deciduous woods 26%, fields, pastures, and cut-over woodland [mostly by car] 25%, freshwater swamps 4%, fresh-water ponds 3%, salt marshes 1%, Gulf beach and dunes 3%, pine woods 7%).-Dec. 23; 7 a.m. to 5 p.m. (CST). Partly cloudy in a.m., cloudy in p.m., continuous light rain after 3:30; wind ESE, 10 m.p.h.; temp. 46° to 54° F. Nine observers in 3 parties. Total hours, 29 (13 by car, 16 on foot); total miles, 130 (115 by car, 15 on foot). Common loon, 31; horned grebe, 3; pied-billed grebe, 5; brown pelican, 17; double-crested cormorant, 192; Ward's heron, 17; lesser scaup, 275 (includes flock of 150 est.); buffle-head, 3; redbreasted merganser, 12; turkey vulture, 10; black vulture, 10; sharp-shinned hawk, 2; redshouldered hawk, 5; bald eagle, 1 (incubating); marsh hawk, 1; sparrow hawk, 9; bob-white, 6 (covey); Florida gallinule, 1 (never before known here in winter); coot, 3; Cuban snowy plover, 7; killdeer, 66; black-bellied plover, 10; red-backed sandpiper, 11; sanderling, 27; herring gull, 235 (includes flock of 200, est., on sand bar); ring-billed gull, 134; laughing gull, 28; common tern, 6; royal tern, 13; black skimmer, 125 (1 flock); mourning dove, 101; belted kingfisher, 7; flicker, 16; red-bellied woodpecker, 11; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 8; phoebe, 24; tree swallow, 69; blue jay, 61; crow, 54; chickadee, 24; tufted titmouse, 38; brown-headed nuthatch, 1; house wren, 9; Carolina wren, 11; mockingbird, 70; brown thrasher, 17; robin, 3909 (mostly est. in flocks of 100-500); hermit thrush, 7; bluebird, 34; blue-gray gnatcatcher, 11; goldencrowned kinglet, 24; ruby-crowned kinglet, 112; Am. pipit, 2; cedar waxwing, 100; loggerhead shrike, 28; starling, 158; blue-headed vireo, 2; orange-crowned warbler, 2; myrtle warbler, 454 (partly est.); yellow-throated warbler, 2; pine warbler, 52; western palm and yellow palm warblers (some typical examples of each definitely identified), 49; yellow-throat, 6; English sparrow, 134; meadowlark, 21; red-wing, 280; cardinal, 32; goldfinch, 171; red-eyed and Alabama towhees (some typical examples of each definitely identified), 43; savannah sparrow, 2; vesper sparrow, 18; chipping sparrow, 70; field sparrow, 47; white-throated sparrow, 161; swamp sparrow, 22; song sparrow, 6. Total, 80 species and subspecies; about 7749 individuals. (Seen in area Dec. 30: baldpate, 1; ring-necked duck, 65 [1 flock]; canvas-back, 1; Am. goldeneye, 2; red-tailed hawk, 2; Wilson's snipe, 2; pileated woodpecker, 1; Bewick's wren, 1.)-Frank Bray, Chas. J. Kahn, E. J. Koestner, Lennie Pate, Alan C. Sheppard, Kenneth R. Tanner, Maleta M. Wernicke, A. Frederick

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Wicke, Jr., Francis M. Weston.

136. St. Augustine, Fla. (part of Anastasia Island, north to Vilano Beach and inland 1 to 3 miles; ocean and inlet beaches, sand bars and mud flats 35%, salt marsh 25%, pastures, fields, and unused golf course 10%, short leaf pinelive oak association 1%, long-leaf pine-palmetto association 4%, myrtle, live oak, and other scrub and borders 20%, ponds and lagoons 5%).-Dec. 26. Clear; temp. 60° to 72°; wind W, occasional puffs 5-8 m.p.h., mostly dead calm. One observer, Total hours, 10 (7 on foot, 3 by car); total miles, 40 (5 on foot, 35 by car). Common loon, 4; horned grebe, 4; brown pelican, 1500; gannet, 2; double-crested cormorant, 700; great blue heron, 26; Am. egret, 18; snowy egret, 14; Louisiana heron, 12; little blue heron, 27; black-crowned night heron, 3; black duck, 3; blue-winged teal, 2; lesser scaup, 84; goldeneye, 1 9, seen twice at 50 ft. with 8x binoculars, also on wing); ruddy duck, 2; hooded merganser, 2; red-breasted merganser, 26; turkey vulture, 27; black vulture, 42; Cooper's hawk, 1; red-tailed hawk, 4; red-shouldered hawk, 3; bald eagle, 4; marsh hawk, 2; osprey, 2 (1 hanging on electric cable where it was killed while diving for fish in water beneath); sparrow hawk, 14; clapper rail, 1; coot, 1; oyster-catcher, 2; piping plover, 3; semipalmated plover, 212; killdeer, 94; black-bellied plover, 278; ruddy turnstone, 65; Wilson's snipe, 2; spotted sandpiper, 2; willet, 2; greater yellowlegs, 19; lesser yellow-legs, 3; red-backed sandpiper, 28; semipalmated sandpiper, 84; western sandpiper, 18; marbled godwit, 3 (good view in brilliant sunlight); sanderling, 65; herring gull, 450; ring-billed gull, 600; laughing gull, 256; Bonaparte's gull, 126; Forster's tern, 85; common tern, 6; royal tern, 175; Caspian tern, 28; black skimmer, 6500; mourning dove, 2; ground dove, 18; barred owl, 1; belted kingfisher, 16; flicker, 2; pileated woodpecker, 1; red-bellied woodpecker, 2; yellow-bellied sapsucker, 1; red-cockaded woodpecker, 1; phoebe, 24; tree swallow, 120 (5000 on Dec. 23); blue jay, 16; Florida jay, 1; crow, 2; tufted titmouse, 1; redbreasted nuthatch, 1; house wren, 6; Carolina wren, 2; Worthington's marsh wren, 1; mockingbird, 32; catbird, 4; brown thrasher, 2; robin, 47; hermit thrush, 2; bluebird, 22; blue-gray gnatcatcher, 1; ruby-crowned kinglet, 26; pipit, 114; cedar waxwing, 4; loggerhead shrike, 10; starling, 12; white-eyed vireo, 1; blue-headed vireo, 1; black and white warbler, 1; orangecrowned warbler, 1; myrtle warbler, 1000; yellow-throated warbler, 2; pine warbler, 18; palm warbler, 36; yellow-throat, 2; English sparrow, 34; meadowlark, 12; red-wing, 110; rusty blackbird, 3; boat-tailed grackle, 2; cowbird, 86; cardinal, 28; goldfinch, 328; red-eyed towhee, 12; white-eyed towhee, 3; savannah sparrow, 14; sharp-tailed sparrow, 1; seaside sparrow (subsp?) 1; white-throated sparrow, 14; swamp sparrow, 2; song sparrow, 8. Total, 110 species

and subspecies; approximately 13,851 individuals.—Clifford H. Pangburn.

137. St. Marks National Wildlife Refuge, St. Marks, Fla. (around "The Mounds," along Lighthouse Road to Aucilla Tramroad, down Tramroad to junction with Outer Dike, down Outer Dike to junction with North-South Dike, along North-South Dike to Lighthouse Road then to Lighthouse, from Lighthouse to Newport and St. Marks).-Dec. 29; 8 a.m. to 6 p.m. Partly cloudy; ground bare; wind S, 5-10 m.p.h.; temp. 48° to 65° F. Total miles, 37 (36 by car. 1 by foot); total party hours afield, 9. Common loon, 10; horned grebe, 5; pied-billed grebe, 30; white pelican, 10; brown pelican, 3; double-crested cormorant, 93; water-turkey, 2; great blue heron, 30; Am. egret, 69; snowy egret, 3; Louisiana heron, 2; little blue heron, 10; black-crowned night heron, 2; whistling swan, 3 (reported last year for the first time here); Canada goose, 3600; blue goose, 5; mallard, 360; black duck, 50; gadwall, 22; baldpate, 1100; Am. pintail, 2800; green-winged teal, 75; blue-winged teal, 75; shoveller, 300; redhead, 1; ring-necked duck, 800; canvas-back, 3; lesser scaup, 2000; Am. golden-eye, 3; buffle-head, 2; ruddy duck, 45; hooded merganser, 3; redbreasted merganser, 25; turkey vulture, 30; black vulture, 20; red-tailed hawk, 3; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 2; sparrow hawk, 1; bob-white, 6; Florida gallinule, 1; coot, 5000; semipalmated plover, 3; killdeer, 30; least sandpiper, 5; red-backed sandpiper, 300; dowitcher, 3; semipalmated sandpiper, 1; western sandpiper, 1; herring gull, 52; ring-billed gull, 51; common tern, 5; mourning dove, 13; belted kingfisher, 7; flicker, 1; phoebe, 1; blue jay, 3; crow, 20; brown-headed nuthatch, 2; house wren, 1; mockingbird, 20; catbird, 1; brown thrasher, 1; robin, 100; bluebird, 2; loggerhead shrike, 1; meadowlark, 20; red-wing, 15; boat-tailed grackle, 20; purple grackle, 1; cardinal, 5; red-eyed towhee, 3; seaside sparrow, 1; song sparrow, 7. Total, 75 species; about 17,303 individuals.-Paul T. Kreager.

138. St. Petersburg, Fla. (Gulfport, Pass-a-Grille, Gulf Beaches, and Shore Acres; beaches and lakes 75%, oak and pine woodland 15%, marsh and dense undergrowth 5%, open fields 5%).—Dec. 26. Fog, followed by early clearing; temp. 64° to 75°. Sixteen observers in 9 parties. Total hours, 68; total miles, 164 (129 by car, 35 on foot). Common loon, 50; horned grebe, 17; pied-billed grebe, 10; brown pelican, 254; double-crested cormorant, 1079; anhinga, 1; man-o'-war bird, 2; great blue heron, 47; Ward's heron, 2 (on nests); Am. egret, 67; snowy egret, 56; Louisiana heron, 22; little blue heron, 47; green heron, 1; yellow-crowned night heron, 6; least bittern, 1; white ibis, 23; bluewinged teal, 2; ring-necked duck, 6; greater scaup, 2; lesser scaup, 6379; ruddy duck, 18; red-breasted merganser, 28; turkey vulture, 79; black vulture, 84; sharp-shinned hawk, 1: Cooper's hawk, 1; red-tailed hawk, 2; redshouldered hawk, 1; bald eagle, 25; marsh hawk, 7; osprey, 2; sparrow hawk, 31; bobwhite, 96; clapper rail, 1; Florida gallinule, 23: Am. coot, 1563; oyster-catcher, 4; piping plover. 2; semipalmated plover, 33; Wilson's plover, 19; killdeer, 71; black-bellied plover, 51; ruddy turnstone, 142; Wilson's snipe, 4; spotted sandpiper, 8; willet, 21; knot, 91; least sandpiper, 61; red-backed sandpiper, 58; dowitcher, 13; semipalmated sandpiper, 80; marbled godwit. 2: sanderling, 69; herring gull, 106; ring-billed gull, 636; laughing gull, 141; Forster's tern, 65; royal tern, 293; Cabot's tern, 6; Caspian tern, 7; black skimmer, 600; rock dove, 48; mourning dove, 107; ground dove, 32; great horned owl, 1; belted kingfisher, 34; flicker, 22; pileated woodpecker, 1; red-bellied woodpecker, 44; yellow-bellied sapsucker, 4; hairy woodpecker, 1; downy woodpecker, 1; red-cockaded wood-pecker, 6; kingbird, 2; gray kingbird, 1 (seen in same locality on Dec. 14 and 26; carefully studied and positively identified-Marie Willson); phoebe, 15; wood pewee, 1 (seen by Mrs. Martin and Miss Gleisner; both familiar with the bird in the North); blue jay, 46; fish crow, 36; tufted titmouse, 2; gray-headed nuthatch, 49; house wren, 10; Carolina wren, 5; longbilled marsh wren, 2; mockingbird, 167; catbird, 11; brown thrasher, 4; robin, 3075; hermit thrush, 1; bluebird, 144; blue-gray gnatcatcher, 21; ruby-crowned kinglet, 4; loggerhead shrike, 58; white-eyed vireo, 1; blue-headed vireo, 2; myrtle warbler, 220; yellow-throated warbler, 4; pine warbler, 94; prairie warbler, 9; western palm warbler, 276; yellow palm warbler, 6; yellow-throat, 14; English sparrow, 41; meadowlark, 115; red-wing, 378; boat-tailed grackle, 194; purple grackle, 2; cardinal, 11; goldfinch, 225; towhee, 69; white-eyed towhee, 6; savannah sparrow, 2; grasshopper sparrow, 1; Henslow's sparrow, 8; seaside sparrow, 2; chipping sparrow, 1; swamp sparrow, 8. Total, 118 species and subspecies; about 18,263 individuals.-Marie G. Willson, Augusta V. H. A. Leuchs, Marie P. Cobb, Sarah Pomeroy, Mary Lou Mills, James Ferguson, Grace Martin, Etta Gleisner, William G. Fargo, Carrie Hunt, Martha Buchwald, A. J. Dietrich, J. E. Williams, C. H. Manley, H. H. Slocum, Daisey M. Morrison (St. Petersburg Audubon Society and The Bird and Tree Circle of the St. Petersburg Garden Club).

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139. Tampa, Fla. (Interbay Peninsula, and northwest on Route 17 to vicinity of Oldsmar; Davis Causeway; flat pinelands and scrub palmetto 25%, bay shore lines 40%, grassland with scattered pines 25%, mangrove swamp 5%, deciduous thicket 5%).—Dec. 30; 8:30 a.m. to 6:30 p.m. Heavy fog, breaking to low clouds by 9:30 a.m., partly cloudy with frequent rain showers through p.m.; temp. 62° to 75°; wind SE to SW, light in a.m. to 20 m.p.h. in p.m. Four

observers in 2 parties. Total hours, 19 (17 on foot, 2 in car); total miles, 33 (8 on foot, 25 in car along causeway and highway through swamps). Common loon, 20; horned grebe, 300 (est.); white pelican, 3; brown pelican, 440 (est.); cormorant, 200 (est.); Ward's heron, 9; Am. egret, 30; snowy egret, 15; Louisiana heron, 9; little blue heron, 50 (est.); scaup. 3500 (est.); red-breasted merganser, 245 (est.); turkey vulture, 5; black vulture, 100; red-tailed hawk, 1; red-shouldered hawk, 2; bald eagle, 4; marsh hawk, 4; sparrow hawk, 9; bob-white, 12; Cuban snowy plover, 12; semipalmated plover, 71; Wilson's plover, 13; killdeer, 95; black-bellied plover, 65; ruddy turnstone, 110 (est.); Wilson's snipe, 30; spotted sandpiper, 1; willet, 110 (est.); knot, 1 (stout bird, whitish rump, short bill-B.F.M.); least sandpiper, 56; red-backed sandpiper, 91; dowitcher, 200 (est.); semipalmated sandpiper, 50; western sandpiper, 2; marbled godwit, 79 (large brown bird, extremely long, upturned bill-B.F.M.); sanderling, 105 (est.); herring gull, 19; ring-billed gull, 750 (est.); laughing gull, 225 (est.); Bonaparte's gull, 85; Forster's tern, 7; common tern, 75; royal tern, 155 (est.); Cabot's tern, 6; black skimmer, 400 (est.); mourning dove, 94; ground dove, 30; barn owl, 2; great horned owl, 1; belted kingfisher, 7; flicker, 2; red-bellied woodpecker, 5; red-headed woodpecker, 5; yellow-bellied sapsucker, 1; phoebe, 10; tree swallow, 30; blue jay, 46; fish crow, 3; house wren, 16; Carolina wren, 6; short-billed marsh wren, 2; mockingbird, 78; catbird, 8; brown thrasher, 4; robin, 1000 (est.); bluebird, 47; blue-gray gnatcatcher, 3; ruby-crowned kinglet, 15; loggerhead shrike, 26; white-eyed vireo, 2; myrtle warbler, 235 (est.); pine warbler, 10; western palm warbler, 84; yellow palm warbler, 1; yellow-throat, 8; English sparrow, 100 (est.); meadowlark, 40; red-wing, 150 (est.); cardinal, 10; goldfinch, 70; white-eyed towhee, 47; savannah sparrow, 40; grasshopper sparrow, 1; pine-woods sparrow, 10; chipping sparrow, 15; swamp sparrow, 9; song sparrow, 16. Total, 88 species and subspecies; about 10,060 individuals. (Seen in area Dec. 23, near St. Petersburg: ring-necked duck, 2; ruddy duck, 6; Florida gallinule, 3; Am. coot, 4.)—C. L. Broley, Mrs. E. G. Brownsey, Mary Granger Mills, B. Frank McCamey.

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140. Ashland, Ohio (Charles Mill Dam area, same area as 1944 count; deciduous woods 15%, waste fields 40%, cultivated fields 5%, marsh and bushy swamps 23%, roadsides 15%, spruce grove 2%).—Dec. 30. Cloudy; light to moderate rain; temp. 38°, falling to 34°; wind SW, 5-25 m.p.h.; ground bare with patches of snow in sheltered areas; lake frozen, thawing at edges. Ten observers in 4 parties. Total hours, 24 (on foot); total miles, 30 (on foot). Mallard, 19; sharp-shinned hawk, 1; red-shouldered hawk, 1; red-tailed hawk, 1; sparrow hawk, 1; bob-white,

19; mourning dove, 1; barred owl, 2; flicker, 1; red-bellied woodpecker, 6; red-head d woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 23; blue jay, 11; black-capped chick-adee, 61; tufted titmouse, 23; white-breasted nuthatch, 44; brown creeper, 2; bluebird, 5; starling, 57; English sparrow, 249; cardinal, 52; goldfinch, 31; slate-colored junco, 116; tree sparrow, 690; song sparrow, 36. Total, 26 species; approximately 1454 individuals.—Burton C. Kahl, H. S. Telford, C. S. Ross, Richard Daggy, S. M. Martin, Eleanor Lyons, Virgil Cookè, Donald Brubaker, Gene Holmes, Paul D. Harwood (members and guests, Ashland Naturalists Society).

141. Ashtabula, Ohio (Lake Erie shore from west of Ashtabula to Conneaut [14 miles] and most of lake plain, from shore inland 4 miles). -Dec. 23; 7 a.m. to 5 p.m. Census date preceded by 10 days of subzero or near-zero temperatures; streams mostly frozen; Lake Erie filled with solid drift ice for 1-3 miles from shore except for the warm water around the Cleveland Illuminating Co. plant where most of the water birds were concentrated; temp. 12° to 24°; wind 5-18 m.p.h.; sky heavily overcast, with light snow in a.m., clear in p.m. Total miles, 99 (87 by car, 12 on foot). Redthroated loon, 1; pied-billed grebe, 1; doublecrested cormorant, 1; mute swan, 2; Canada goose, 1 (crippled); mallard, 6; black duck, 28; pintail, 1; redhead, 1; lesser scaup, 36; Am. golden-eye, 134; buffle-head, 37; white-winged scoter, 2; hooded merganser, 1; Am. merganser, 285; red-breasted merganser, 27; goshawk, 1 (viewed within gun-range); Cooper's hawk, 1; red-tailed hawk, 1; rough-legged hawk, 1; golden eagle, 1 (hunting over drift ice); sparrow hawk, 3; ruffed grouse, 1; bob-white, 6; pheasant, 2; coot, 1; great black-backed gull, 3; ring-billed gull, 2; herring gull, 232; Franklin's gull, 1 (my first winter record); Bonaparte's gull, 1; mourning dove, 4; screech owl, 1; great horned owl, 1; snowy owl, 2 (4 others seen enroute to census area); barred owl, 1; kingfisher, 2; flicker, 2; pileated woodpecker, 2; red-bellied woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 7; blue jay, 84; crow, 1 (crippled); black-capped chickadee, 21; tufted titmouse, 4; white-breasted nuthatch, 4; robin, 1 (at a feeding station); golden-crowned kinglet, 4; northern shrike, 1 (feeding on gizzard of shad embedded in lake-shore drift ice); starling, 365; English sparrow, 185; cardinal, 9; evening grosbeak, 19 (in 8 groups, all feeding on buds of sugar maple); goldfinch, 4; junco, 43; tree sparrow, 88; song sparrow, 1; snow bunting, 470. Total, 59 species; 2152 individuals. -Lawrence E. Hicks.

142. Athens, Ohio (essentially the same area as covered in '42 and '43; river valley and bordering hills, Athens to 4 miles east; hill region 2-4 miles north of Athens; woodland

50%, open fields 35%, river bank 15%).-Dec. 27; 8 a.m. to 6 p.m. Light rain until 9:30; temp. 32° to 38° F.; wind SW, negligible; ground covered with 1-in, fresh snow in morning, muddy by noon. Ten observers in 3 parties. Total hours, 14; total miles, 33 (13 on foot, 20 by car). Sparrow hawk, 1; bob-white, 9; barred owl, 1; flicker, 1; red-bellied woodpecker, 8; downy woodpecker, 40; pileated woodpecker, 1; blue jay, 3; crow, 12; Carolina chickadee, 127; tufted titmouse, 97; white-breasted nuthatch. 19: brown creeper, 2; winter wren, 2; Carolina wren, 22; mockingbird, 3; hermit thrush, 1; bluebird, 19; golden-crowned kinglet, 3; starling, 160; English sparrow, 110; meadowlark, 1; cardinal, 111; goldfinch, 12; towhee, 13; junco, 240; tree sparrow, 235; song sparrow, 156. **Total**, 28 species; 1409 individuals.—King Adamson, Robert Butterfield, Mildred Chutter, H. T. Gier, Mrs. H. T. Gier, Mrs. P. G. Krauss, Viola Nelson, James Patrick, Hazel Roach, James Seward (Athens Bird Club).

143. Buckeye Lake, Ohio (about the same area as in past 21 years; deciduous woodlands 60%, open farmland 30%, brushy swamp and cattail marsh 10%).-Dec. 29; 7:45 a.m. to 5 p.m. Dense fog from 7 to 10 a.m., partly cloudy remainder of day; temp. 26° to 40°; wind SW less than 5 m.p.h.; snow coverage on ground 30% at daylight, melting to 10% coverage at dusk; lake frozen to depth of 8 in., no open holes in ice: streams with some open water. Four observers in 3 parties. Total man miles, 29; total auto miles, 93. Mallard, 10; black duck, 44; Am. pintail, 1; green-winged teal, 1; gadwall, 1; sharp-shinned hawk, 1; Cooper's hawk, 4; red-tailed hawk, 10; red-shouldered hawk, 1; Am. rough-legged hawk, 3; bald eagle, 1; marsh hawk, 1; sparrow hawk, 25; bob-white, 40 (4 coveys); ring-necked pheasant, 4; mourning dove. 79: screech owl, 1: snowy owl, 1: barred owl, 2; kingfisher, 2; flicker, 35; pileated woodpecker, 1; red-bellied woodpecker, 28; redheaded woodpecker, 18; hairy woodpecker, 15; downy woodpecker, 78; horned lark, 14; blue jay, 241; crow, 108; Carolina chickadee, 125; tufted titmouse, 129; white-breasted nuthatch, 88; brown creeper, 13; winter wren, 1; Carolina wren, 1; long-billed marsh wren, 1; bluebird, 13; golden-crowned kinglet, 2; migrant shrike, 1; starling, 607; myrtle warbler, 1; English sparrow, 1113; meadowlark, 1; red-wing, 9; rusty blackbird, 50; bronzed grackle, 1; cowbird, 9; cardinal, 192; pine siskin, 1; goldfinch, 74; red-eyed towhee, 9; slate-colored junco, 82; tree sparrow, 896; white-throated sparrow, 2; swamp sparrow, 9; song sparrow, 215; snow bunting, 26. Total, 57 species: 4441 individuals. -Charles A. Dambach, Harry J. Fabert, Lawrence E. Hicks, Milton B. Trautman.

144. Bucyrus, Ohio (fields and woods 4½ miles south of city, within a circle 3 miles in diameter).—Dec. 28; 8 a.m. to 5:30 p.m. Cloudy;

ground mostly snow covered, southern exposures bare; wind SE, light; temp, 22° at start, 32° at return. Two observers, alone in a.m., together in p.m. Total hours, 11 (81/2 on foot, 21/2 by car); total miles, 15 (12 by car, 3 on foot). Red-tailed hawk, 1; Am. roughlegged hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 7; rock dove, 8; mourning dove, 7; red-bellied woodpecker, 5; red-headed woodpecker, 8; hairy woodpecker, 1; downy woodpecker, 8; blue jay, 11; crow, 1; tufted titmouse, 10; white-breasted nuthatch, 16; starling, 71; English sparrow, 400 (est.); cardinal, 16; goldfinch, 35; slate-colored junco, 20; tree sparrow, 40; song sparrow, 4. Total, 22 species; about 672 individuals.—Chas. H. Kuehnle, Paul F. Kuehnle.

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145. Cadiz, Ohio (same area as in past 45 years; suburbs 10%, open fields 50%, woods 20%, brushy roadsides 10%).-Dec. 23. Clear; temp. 2° to 18°; wind light, 2-5 m.p.h.; 5-in. snow. Sharp-shinned hawk, 1; red-tailed hawk, 1; sparrow hawk, 2; pileated woodpecker, 1; red-bellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 7; prairie horned lark, 23; crow, 3; black-capped chickadee, 31; tufted titmouse, 10; white-breasted nuthatch, 4; brown creeper, 2; Carolina wren, 1; starling, 43; English sparrow, 90; cardinal, 27; goldfinch, 1; junco, 25; tree sparrow, 122; song sparrow, 7. (On Dec. 16, John and David Worley found a great blue heron caught in a trap by a toe; it was released, apparently uninjured.) Total, 21 species; 404 individuals. - H. B. McConnell, John G. Worley, John C. Worley, David E. Worley, Milton McC. Ronsheim, John Mitchell, Harold Haverfield, Martha Mitchell, Sarah McClintock.

146. Canton, Ohio (area 15 miles in diameter with Canton as center; parks and suburbs 30%, woodlots 20%, open farmland 30%, pastures 20%).-Dec. 23. Clear; lakes and ponds and most of the streams frozen; foot of snow; temp. 2° to 20°; wind SW, 5 m.p.h. Eighteen observers in 13 parties. Total hours, 45 (40 on foot, 5 by car); total miles, 75 (40 on foot, 35 by car). Red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 2; bob-white, 41; mourning dove, 6; yellow-bellied sapsucker, 1; hairy woodpecker, 4; downy woodpecker, 27; blue jay, 23; crow, 2245; black-capped chickadee, 38; tufted titmouse, 89; white-breasted nuthatch, 11; red-breasted nuthatch, 2; brown creeper, 3; golden-crowned kinglet, 1; starling, 150; English sparrow, 994; cardinal, 49; slate-colored junco, 98; tree sparrow, 112; song sparrow, 53. Total, 23 species; 3952 individuals. - Eleanor Anderson, J. G. Biers, Don Brown, Don Collins, Mr. and Mrs. J. L. Floyd, Bruce Hettel, C. F. Kaufholtz, Ernest Kell, Edward Kimes, Mary E. Kohler, James Leyman, George Nieport, Mr. and Mrs. D. R. Pratt, C. L. Riley, Edgar Shreffler, Harry Tawney (members Neo Naturalists).

147. Cleveland, Ohio (Gordon Park eastward to mouth of Chagrin River along the Lake Erie shore; inland to Shaker Lakes, Gates Mills. North Chagrin reservation and Willoughby; lake shore 15%, beech-maple climax forest 20%, open fields 35%, town suburbs 15%, thickets 10%, swamps 5%).—Dec. 29; 8 a.m. to dusk. Foggy in spots until 10 a.m. then clear with intermittent sunshine; SW wind in late afternoon only; temp. 32° to 42°; snow 8 to 10 in. deep in woods but less in open places; Lake Erie open but ponds and rivers mostly frozen. Twenty-three observers in 8 parties. Total hours, 54 (34 on foot, 20 in cars); total miles, 295 (44 on foot, 251 by car). Great blue heron, 2; mallard, 56; black duck, 23; pintail, 1; lesser scaup, 15; golden-eye, 32; buffle-head, 2; white-winged scoter, 1; ruddy duck, 1; Am. merganser, 40; red-breasted merganser, 3; sharp-shinned hawk, 1; Cooper's hawk, 6; redtailed hawk, 1; red-shouldered hawk, 3; marsh hawk, 1; sparrow hawk, 3; ruffed grouse, 2; bob-white, 14 (1 covey); pheasant, 15; herring gull, 131; ring-billed gull, 228; Bonaparte's gull, 3; rock dove, 182; barred owl, 1; flicker, 2; pileated woodpecker, 9; red-bellied woodpecker, 4; hairy woodpecker, 11; downy woodpecker, 36; blue jay, 110; crow, 12; black-capped chickadee, 131; tufted titmouse, 47; white-breasted nuthatch, 51; red-breasted nuthatch, 22; robin, 1; golden-crowned kinglet, 4; starling, 813; English sparrow, 206; cardinal, 80; evening grosbeak, 2; goldfinch, 19; towhee, 3; slatecolored junco, 53; tree sparrow, 67; song sparrow, 8; snow bunting, 1. Total, 48 species; 2459 individuals. (Seen in area Dec. 26: canvas-back, 1; great black-backed gull, 3; Dec. 30: Carolina wren, 1; great horned owl, 2; mourning dove, 2.)-Leta Adams, Jerry Brody, Vera Carrothers, Edith Dobbins, Robt. Foley, Earl Godfrey, R. W. Hill, Dick and Isabelle Klein, Nadine Literaty, Margaret Perner, Marian Schutler, F. N. Shankland, C. M. Shipman, Brian and Margaret Sherwin, Marion Skaggs, Ted Stevens, Kurt Student, Clark Tefft, Harold Wallin, A. B. Williams, M. B. Skaggs (guests and members, The Kirtland Bird Club).

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148. Columbus, Ohio (feeding station in Marble Cliff; 300-acre woodland and old fields at Camp Lazarus Boy Scout Reservation; section of Scioto River immediately south of O'Shaughnessy Dam; small cattail marsh at Glenrest Sanitarium).—Dec. 30; 9 a.m. to dusk. Heavily overcast, intermittent rain all day; last remnants of 7-in. snow on ground; streams open, most ponds frozen; very slight shifting wind; temp. 40°. Three observers together and separately. Total hours afield, 18 (17 on foot, 1 hy car); total party miles, 28 (18 on foot, 10 by car). Mallard, 30; black duck, 11; redhead, 1; Am. merganser, 11; mourning dove, 1; rock dove, 2; kingfisher, 1; hairy woodpecker, 1; downy woodpecker, 6; blue jay, 3; crow, 4; Carolina chickadee, 4; tufted titmouse, 5; white-

breasted nuthatch, 2; mockingbird, 1; starling, 39; English sparrow, 11; red-eyed towhee, 1; slate-colored junco, 21; tree sparrow, 53; song sparrow, 29. **Total**, 21 species; 237 individuals.—Richard Boyd, Robert Turrell, Ronald Turrell.

149. Cuyahoga Falls, Ohio (same area as in previous years; city and suburban parks and yards 20%, deciduous wooded valleys and ravines 25%, open farmland 25%, Summit Lake and Cuyahoga River 15%, golf courses 10%, marshes 5%).-Dec. 30; 9:30 a.m. to 4:30 p.m. Raining; wind SW, 15 m.p.h.; temp. 34° to 42°; 2-3 inches melting snow on ground; Summit Lake and Cuyahoga River open, all other water frozen. Thirteen observers in 7 parties. Total hours, 42 (33 on foot, 9 by car); total miles, 39 (25 by car, 14 on foot). Mallard, 26; black duck, 3; Am. golden-eye, 75; hooded merganser, 10; Am, merganser, 2; red-tailed hawk, 1; marsh hawk, 1; sparrow hawk, 8; herring gull, 12; bob-white, 22; pheasant, 8; mourning dove, 12; barn owl, 2; belted kingfisher, 1; flicker, 1; hairy woodpecker, 8; downy woodpecker, 23; blue jay, 28; crow, 15; black-capped chickadee, 48; titmouse, 8; brown creeper, 3; white-breasted nuthatch, 20; red-breasted nuthatch, 1; bluebird, 4 (2 pairs); starling, 42; English sparrow, 382; cardinal, 67; evening grosbeak, 12 (passing through trees bordering golf course — J.L.); goldfinch, 125 (100 in 1 flock on telephone wires); junco, 43; tree sparrow, 186; song sparrow, 9. Total, 33 species: about 1208 individuals. (Seen at Summit Lake, Dec. 27: Bonaparte's gull, 6-F.E.S.; 6 bald eagles wintering at Mogadore Lake, 3 miles outside area.)-Ralph Dexter, John Lieftinck, W. R. Lodge, Alice Internoscia, Charles Mounts, John Roetzel, Fred Smith, Henry Stevens, Paul Stewart, Gale Wiley, Jim and Bill Thorpe, Warren Towle (Cuyahoga Falls Audubon Club).

150. Dayton, Ohio. (Woodland Cemetery, Madden Park, Ridge Ave., Hills and Dales, Oakwood, Residence Park, Englewood, Taylorsville and Huffman dams, and country roads in Little York and Merlin Heights area: wooded residential 25%, thickets and woods 40%, meadows and river bottoms 15%).-Dec. 30. Slow drizzle, at times light rain; temp. 33° to 42°; average wind velocity 18.3, SW; lakes icebound, streams swollen; open ground largely bare, soft snow in woods. Fifteen observers-6 alone, 9 in 4 groups. Total party hours, 37; total party miles, 118 (28 on foot, 90 by car). Mallard, 30; black duck, 60; pintail, 3; Am. golden-eye, 8; Am. merganser, 6; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 3; ring-necked pheasant, 1; mourning dove, 48; rock dove, 65; screech owl, 1 (also 1 dead); flicker, 2; red-bellied woodpecker, 1; hairy woodpecker, 8; downy woodpecker, 52; crow, 105; blue jay, 8; chickadee, 97; tufted titmous., 56; white-breasted nuthatch, 9; brown creeper, 8; Carolina wren, 1;

mockingbird, 5; bluebird, 3; robin, 6; goldencrowned kinglet, 5; starling, 47; English sparrow, 503; cardinal, 128; goldfinch, 40; towhee, 3; junco, 203; tree sparrow, 82; swamp sparrow, 1; song sparrow, 60. Total, 37 species; 1661 individuals. (Seen within week: red-breasted nuthatch.)—Catherine Shickley, Frederick J. Hooven, Isabel Dearolf, B. H. Smith, Martha C. Smith, Miriam Williamson, Catherine Hadeler, Bill Duellman, Bernard Bollman, Florence Clippinger, Ruth Clark, O. R. Rodgers, Edith S. Blincoe, Joseph Blincoe, Ben. J. Blincoe (Dayton Audubon Society).

151. Hamilton, Ohio (same area as in past 24 years: edge of town to Miami River, to Symmes Creek, following creek bed for 2 miles, and return; open farmland 40%, woodland patches 40%, weedy fields 20%).-Dec. 30; 9 a.m. to 4 p.m. Misty and raining; ground partly covered with snow, streams clear of ice; visibility poor; wind E, 1-7 m.p.h.; temp. 42° to 46° F. Two observers together. Total miles, 18 (8 on foot, 10 by car). Mallard, 23; red-tailed hawk, 2: red-shouldered hawk, 1: marsh hawk, 6; Cooper's hawk, 1; sparrow hawk, 3; mourning dove, 17; kingfisher, 2; flicker, 16; hairy woodpecker, 1; downy woodpecker, 16; horned lark, 1; blue jay, 2; crow, 30; Carolina chickadee, 22; tufted titmouse, 14; brown creeper, 5; Carolina wren, 12; winter wren, 1; starling, 86; English sparrow, 410; meadowlark, 4; cardinal, 64; junco, 42; tree sparrow, 61; song sparrow, 35. Total, 26 species; 877 individuals.-Frank Harbaum, Willis Harbaum.

152. Iberia (Morrow Co.), Ohio (Olentangy Creek and Galion City Reservoir area; village 15%, woodland 45%, open farmland 28%, pastures 10%, reservoir 2%).—Dec. 28; dawn to dusk. Clear with increasing cloudiness; temp. 27° to 45°; wind SSW, 10 m.p.h.; 6-in. snow, melting in spots; creeks frozen, with slush forming. Eight observers in 4 parties. Total hours, 28; total miles, 30. Mallard, 11; Cooper's hawk, 1; pheasant, 2; killdeer, 2; rock dove, 27; mourning dove, 23; screech owl, 3; great horned owl, 4; flicker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 26; blue jay, 68; chickadee, 4; tufted titmouse, 1; starling, 129; English sparrow, 749; cardinal, 33; slatecolored junco, 10; tree sparrow, 9; whitethroated sparrow, 5; song sparrow, 29; snow bunting, 7. Total, 25 species; 1149 individuals. -M. Doyle Rusk, Scouts Joe Wilcox, Dale Miller, Donald Amick, Richard and David Mc-Donald, E. E. Bowman, Robert Vickers, Paul Miller, M. H. Brady.

153. Lancaster, Ohio (observations within a radius of 5 miles of Lancaster, approximately same route as previous 21 years).—Dec. 23; 8 a.m. to 4 p.m. Morning clear, afternoon overcast; ground covered with 5-in. snow (snow since Dec. 13); streams frozen; wind E, light

in a.m., fairly strong in p.m.; temp. -4° at start. 18° at return. Eight observers in 2 groups. Total hours afield, 51 (afoot); total party miles. 59 (afoot). Red-tailed hawk, 1; marsh hawk, 1: sparrow hawk, 1; bob-white, 22 (2 coveys); pheasant, 2; killdeer, 1; mourning dove, 4; kingfisher, 1; flicker, 7; red-bellied woodpecker. 7; hairy woodpecker, 15; downy woodpecker, 41; blue jay, 43; crow, 3; Carolina chickadee, 74; tufted titmouse, 54; white-breasted nuthatch, 10; red-breasted nuthatch, 13; brown creeper, 4; Carolina wren, 1; hermit thrush, 1; bluebird, 29; golden-crowned kinglet, 2; starling, 63; English sparrow, 150; cardinal, 76; goldfinch, 5; slate-colored junco, 20; tree sparrow, 20; song sparrow, 59. Total, 30 species: 730 individuals.—Florence Branum, Louis Kitz, Chas. H. Shaw, Paul J. Miller, Paul Miller, Jr., Robert J. Goslin, James Venrick, Chas. R. Goslin.

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154. Mansfield, Ohio (South Park in city to 8 miles south; park, woods, orchard, farmland, swamp, and stream).—Dec. 27; 9 a.m. to 4 p.m. Cloudy in a.m.; little wind, SW; 3-6-in. snow on ground; temp. 22° to 36°. Four observers in 2 parties. Total hours, 9; total miles, 6 (on foot). Goshawk, 1; flicker, 1; red-bellied woodpecker, 2; hairy woodpecker, 2; downy woodpecker, 7; blue jay, 15; black-capped chickadee, 9; tufted titmouse, 11; white-breasted nuthatch, 6; starling, 21; cardinal, 8; English sparrow, 28; slate-colored junco, 20; tree sparrow, 19; song sparrow, 2. Total, 15 species; 152 individuals.—J. I. Spandau, H. M. Spandau, Helen Lindbeck, Ruth Lindbeck.

155. Oxford, Ohio (Miami University and Western College campuses, Four Mile Creek 2 miles north and 1 mile south of Oxford, 1 mile along Harker's Run and 1 mile along Bull Run above respective junctions with Four Mile Creek, 11/2 miles along Indian Creek westsouthwest of Oxford, areas of Paul Logan and Harold Brown farms, airport grounds, Hueston's woods, area of Morning Sun, Oxford-McGonigle road; creek and brook margins 45%, mature woodland 20%, open fields 15%, roadsides 10%, university campus or urban areas 10%).-Dec. 28; 7 a.m. to 1 p.m., 2 to 5 p.m. Dense fog to partly clear; temp. 28° to 35°; wind E to SW, about 3-7 m.p.h.; ground largely covered with snow and ice, exposed areas becoming soft; streams open but margined with ice blocks. Thirteen observers in 7 parties. Total party hours, 331/2 (31 on foot, 21/2 by car); total party miles, 531/2 (331/2 on foot, 20 by car). Cooper's hawk, 1; red-tailed hawk, 4; Am. rough-legged hawk, 1; marsh hawk, 4; sparrow hawk, 3; rock dove, 80; mourning dove, 111; screech owl, 1; barred owl, 1; belted kingfisher, 3; flicker, 35; red-bellied woodpecker, 32; red-headed woodpecker, 3; yellow-bellied sapsucker, 2; hairy woodpecker, 16; downy woodpecker, 135; horned lark, 51; blue jay, 28; crow, 80; Carolina chickadee, 231; tufted titmouse, 154; white-breasted nuthatch, 22; redbreasted nuthatch, 3; brown creeper, 8; winter wren, 2; Carolina wren, 14; mockingbird, 6; bluebird, 18; starling, 139; myrtle warbler, 3; English sparrow, 526; meadowlark, 7; cardinal, 192; goldfinch, 58; towhee, 6; slate-colored junco, 281; tree sparrow, 193; white-throated sparrow, 1; song sparrow, 190. Total, 39 species; 2645 individuals.—R. A. Hefner, Mrs. R. A. Hefner, N. T. Mattox, Mrs. W. H. Gran, P. S. Crowell, Mrs. Paul Logan, David Logan, Robert Hefner, Jr., Harold Brown, Ray D. Bourne, Haven H. Spencer, Louis S. Hough, M. W. Boesel.

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156. Portsmouth, Ohio (along river and creek banks, mixed woodland, barnyards, and roadsides).-Dec. 23; dawn to dusk. Clear in a.m., overcast in p.m.; temp. 18° to 25°; cold wind, 5 m.p.h.; ground covered with 4-in. snow. Three observers in 1 party most of the time. Total miles, 57 (12 on foot, 45 by car with observations being made along roadsides), Mallard, 2; black duck, 3; golden-eye, 3; Am. merganser, 50; red-tailed hawk, 1; red-shouldered hawk, 1; bald eagle, 3; marsh hawk, 3; sparrow hawk, 7; bob-white, 12 (1 covey); herring gull, 8; mourning dove, 31; belted kingfisher, 1; flicker, 4; red-bellied woodpecker, 3; hairy woodpecker, 4; downy woodpecker, 14; horned lark, 27; blue jay, 7; crow, 200; Carolina chickadee, 47; tufted titmouse, 31; white-breasted nuthatch, 12; red-breasted nuthatch, 1; brown creeper, 1; winter wren, 1; Carolina wren, 12; bluebird, 15; golden-crowned kinglet, 2; English sparrow, 100; meadowlark, 29; red-wing, 3; cardinal, 102; purple finch, 11; goldfinch, 27; red-eyed towhee, 16; junco, 135; tree sparrow, 95; white-throated sparrow, 3; song sparrow, 27. Total, 40 species; 1054 individuals.-Conrad Roth, Floyd B. Chapman, John Oney, Jr.

157. Riverview, Bellaire, Ohio (ridge of hill behind Riverview to Whiskey Run and westward along run; return by way of Schrami's Hollow; all foothill country; open farmland 25%, woodland 50%, pastures 25%).—Dec. 27; 8:30 a.m. to 5:30 p.m. Overcast in a.m., clearing around 3 p.m.; ground covered with 1-in. snow, melting later in day; wind negligible; temp. 38° to 24°. Two observers together. Total hours, 8 (on foot); total miles, 12 (on foot). Bob-white, 8; crow, 165; black-capped chickadee, 66; tufted titmouse, 3; bluebird, 4; English sparrow, 8; cardinal, 41; goldfinch, 5; slate-colored junco, 82. Total, 9 species; 382 individuals.—T. N. Cline, S. E. Jones.

158. Salem, Ohio (across fields to New Albany, along Middle Fork of Little Beaver Creek to Coleman, then along abandoned canal to Guilford Lake; ¾ of way around lake; headwaters of Middle Fork and along Stone Mill Run to Franklin Square; open farm and marshland 25%, wooded valleys 75%).—Dec. 28; 8 a.m. to 5 p.m. Stratus overcast; light fog; visi-

bility 3/4-1 mi.; light snow squalls in a.m., light drizzle in p.m.; temp. 29° to 36° F.; wind SSE, 4-7 m.p.h.; 2-in. old snow remaining on most of ground; streams mainly free of ice, lake completely covered. Three observers on foot, working separately. Total hours, 27; total miles, 41. Sharp-shinned hawk, 1; Cooper's hawk, 1; red-shouldered hawk, 1; sparrow hawk, 2; ruffed grouse, 1 (tracks); pheasant, 1; screech owl, 1; barred owl, 1; saw-whet owl, 1 (observed at 6 ft.; remained sitting-P.A.S.); flicker, 1; red-bellied woodpecker, 8; red-headed woodpecker, 1; hairy woodpecker, 9; downy woodpecker, 60; prairie horned lark, 5; blue jay, 27; crow, 29; black-capped chickadee, 63; Carolina chickadee, 1 (observer accustomed to handling banded chickadees of both species-P.A.S.); titmouse, 57; white-breasted nuthatch, 46; red-breasted nuthatch, 6; brown creeper, 2; winter wren, 1; golden-crowned kinglet, 2; starling, 41; English sparrow, 147; rusty blackbird, 1; cardinal, 81; pine siskin, 1; goldfinch, 25; towhee, 3; slate-colored junco, 41; tree sparrow, 180; field sparrow, 1; swamp sparrow, 2; song sparrow, 69; Lapland longspur, 4. Total, 38 species; 924 individuals. (Seen in area Dec. 27: red-wing, 1.) Note absence of bobwhite and Carolina wren following severe winter of 1944-45. - Albert T. Hartley, Paul A. Stewart, William C. Baker.

159. Steubenville (Jefferson Co.), (Union Cemetery and area south of Sunset Blvd. to Lover's Lane, north side of Sunset Blvd, and Will's Creek area to highway near Ohio River, golf course, Brady Ave. and return; deciduous woods 48%, bushy meadows and pastures 13%, hemlock grove 5%, creek bottomland 14%, bushy woods and underbrush 12%, urban 8%).—Dec. 30; 9 a.m. to 4:30 p.m. Cloudy in a.m., rainy in p.m.; temp. 40°; wind S, 1 m.p.h., shifting to W, 7-10 m.p.h. Seven observers in 2 parties. Total hours, 11; total miles, 21. Cooper's hawk, 1; ruffed grouse, 3; belted kingfisher, 1; red-bellied woodpecker, 1; downy woodpecker, 12; prairie horned lark, 5; crow, 2; Carolina chickadee, 34; tufted titmouse, 17; white-breasted nuthatch, 5; Carolina wren, 1; starling, 74; English sparrow, 51; cardinal, 37; goldfinch, 5; slate-colored junco, 11; tree sparrow, 23; song sparrow, 15. Total, 18 species; 298 individuals. (Seen in area during week: sparrow hawk, 1; screech owl, 2.)-Albert Tenney, Lois Tenney, James Bates, Don Rarey, Earl Farmer, Richard Banks, Clinton Banks (Forest Audubon Club).

160. Sugar Grove, Ohio (same locality as in 1944, about 850 acres in the unglaciated Appalachian plateau; Hocking River and Clear Creek bottoms and adjacent uplands; open bottom-lands 42%, mixed upland woodland 19%, hemlock forest 13%, old-field, pine-scrub 7%, mixed scrub 6%, southern yellow pine woods 5%, village 5%, country estate 3%).—Dec. 30; dawn to dusk. Heavy clouds, mist to light rain most

of day; temp. 42° to 45°; wind brisk, SW, 10-25 m.p.h. (est.); ground mostly bare, some snow in shaded places. Nineteen observers in 4 parties, these subdividing on occasion. Total hours, 84 (on foot); total miles, 93 (on foot). vulture, 2; sharp-shinned hawk, 2; Cooper's hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 1; ruffed grouse, 11; mourning dove, 28; barred owl, 1; kingfisher, 1; flicker, 4; pileated woodpecker, 3; redbellied woodpecker, 9; sapsucker, 1; hairy woodpecker, 13; downy woodpecker, 58; blue jay, 9; crow, 2; chickadee, 203; tufted titmouse, 84; white-breasted nuthatch, 31; red-breasted nuthatch, 6; brown creeper, 26; winter wren, 3; Carolina wren, 6; mockingbird, 1; robin, 10; bluebird, 28; golden-crowned kinglet, 45; cedar waxwing, 3; starling, 89; myrtle warbler, 1; English sparrow, 396; bronzed grackle, 2; cowbird, 8; cardinal, 137; purple finch, 14; goldfinch, 76; towhee, 6; junco, 267; tree sparrow, 176; white-throated sparrow, 1; song sparrow, 99. Total, 43 species; 1867 individuals.—J. B. Calhoun, F. B. Chapman, C. A. Dambach, R. Fling, C. R. Goslin, J. C. Harlor, A. R. Harper, L. E. Hicks, W. Jones, A. S. Kiefer, D. L. Leedy, R. H. McCormick, J. W. Price, C. R. Reese, I. B. Rickly, D. M. Smith, E. S. Thomas, W. A. Tucker, J. N. Wolfe (Wheaton Club, members and guests).

161. Toledo, Ohio (3 miles of Swan Creek valley, 5 miles of Ottawa River valley, Pearson Park, Cedar Point Marsh, Maumee River at Acme Power House and Erie Marsh, Mich.; the last named contains a large flowing mineral spring; open water 0.5%, cultivated fields 4.5%, cattail marsh 15%, open deciduous forest 80%). -Dec. 23; dawn to dusk. Fair; temp. 0° at start, 10° at close, max. 15° F.; wind NE, 20 m.p.h.; 6-in. snow; water frozen except spring and small areas back of industrial plants. Twenty-one observers in 6 parties. Total hours, 34; total miles 51 (35 on foot, 16 by auto). Black-crowned night heron, 3; mallard, 2224; black duck, 246; pintail, 200; green-winged teal, 2; lesser scaup, 8; Am. golden-eye, 18; bufflehead, 1; Am. merganser, 425; Cooper's hawk, 2; red-tailed hawk, 3; red-shouldered hawk, 6; rough-legged hawk, 9; bald eagle, 2; marsh hawk, 9; sparrow hawk, 1; ring-necked pheasant, 436; coot, 3; Virginia rail, 1 (H. Mayfield, P. Longnecker); herring gull, 618; ring-billed gull, 1; mourning dove, 47; screech owl, 2; snowy owl, 1; barred owl, 1; flicker, 1; hairy woodpecker, 3; downy woodpecker, 41; horned lark, 17; blue jay, 36; crow, 29; black-capped chickadee, 29; tufted titmouse, 32; whitebreasted nuthatch, 14; red-breasted nuthatch, 2; brown creeper, 16; winter wren, 3; Carolina wren, 2; golden-crowned kinglet, 11; starling, 93; English sparrow, 384; red-wing, 81; cardinal, 106; purple finch, 7; common redpoll, 6; goldfinch, 7; towhee, 1; slate-colored junco, 110; tree sparrow, 131; swamp sparrow, 1; song sparrow, 57; Lapland longspur, 60. Total, 52 species; 5549 individuals. Note absence of bob-whites for second successive year; no tracks seen.— James Nessle, Jos. Collins, Jr., Guerdon Tarbox, Tom Brindley, Max Shepherst, Willard Mc-Ewen, Seymour Holloway, Seymour Van Gundy, Robert Van Gundy, Wm. Peloquin, Laurel Van Camp, Herbert Dehring, Andrew Kondi, Lawrence Hiett, Fred Flickinger, Harold Mayfield, Phil Longnecker, Louis Klewer, Irvin Smith, Wm. Knitt, Louis Campbell (The Toledo Naturalists' Association).

162. Van Wert, Ohio (York Twp., entire Section 6; open farmland 20%, deciduous swamp forest 80%).-Dec. 30; 9 a.m. to 5 p.m. Rain to 10 a.m., sleet and snow from 2 p.m.; wind SSW to W, variable 8-18 m.p.h.; temp. 40° to 34° F.; ground covered with 3-in. wet snow, fields partly bare, water in low spots and ditches. Three observers on foot separately. Total hours, 20; total miles, 23. Red-tailed hawk, 1; ring-necked pheasant, 1; screech owl, 1; flicker, 4; red-bellied woodpecker, 2; hairy woodpecker, 2; downy woodpecker, 6; blue jay, 16; crow, 29; tufted titmouse, 14; white-breasted nuthatch, 12; red-breasted nuthatch, 8; brown creeper, 1; starling, 5; English sparrow, 17; cardinal, 13; pine siskin, 1 (poor light but at close range); slate-colored junco, 19; tree sparrow, 89; song sparrow, 7. **Total**, 20 species; 248 individuals.—Eugene Good, Arthur S. Brooks, John S. Brooks.

163. Youngstown, Ohio (Meander Lake Conservation area, Mill Creek Park and Mill Creek valley south to North Lima Road, Yellow Creek, Poland to Woodworth and vicinity Pine Lake-same area covered since 1933; open farmland 60%, wooded areas 30%, cattail marsh 10%).-Dec. 23; 7:30 a.m. to 5 p.m. Fair; temp. 7° to 20° F.; practically no wind; deep snow everywhere; all lakes frozen, open water only in creeks. Eleven observers in 6 parties. Total hours, 40; total party miles afoot, 45. Mallard, 30; black duck, 124; golden-eye, 6; Am. merganser, 3; Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 3; rough-legged hawk, 1; marsh hawk, 3; sparrow hawk, 4; bob-white, 18; ring-necked pheasant, 1; mourning dove, 22; screech owl, 3; great horned owl, 3; red-bellied woodpecker, 4; hairy woodpecker, 9; downy woodpecker, 48; horned lark (sp. ?), 33; bluejay 69; crow, 2458; black-capped chickadee, 68; tufted titmouse, 66; white-breasted nuthatch, 44; red-breasted nuthatch, 3; brown creeper, 8; golden-crowned kinglet, 6; cedar waxwing, 5; starling, 19; English sparrow, 300; cardinal, 54; goldfinch, 7; pine siskin, 10; junco, 60; tree sparrow, 190; song sparrow, 10. Total, 36 species; 3695 individuals.—E. O. Mellinger, Wm. Baker, Frank Ferris, H. A. Johnson, Evan Dressel, Edith Murray, Cora Turner, Geo. Madtes, H. Heimerdinger, Edward Minich, Grant M. Cook.

164. Ansted (Fayette Co.), W. Va. (edge of town down Mill Creek to New River Canyon at Hawks Nest railroad station, along the river and adjacent woods; Hawks Nest State Park and adjacent woods; creek and river 20%, deciduous woodland 50%, pine woodland 30%).-Dec. 28; 8:30 a.m. to 3:30 p.m. Overcast, with heavy fog until noon; no wind; temp. 40° to 36° F.; ground bare; water mostly open. Two observers together. Total hours, 7 (on foot); total miles, 10 (on foot), Am, merganser, 8; bob-white, 5; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 4; blue jay, 12: crow, 2; chickadee, 34; tufted titmouse, 22; white-breasted nuthatch, 4; red-breasted nuthatch, 15; brown creeper, 3; winter wren, 4; Carolina wren, 10; hermit thrush, 1; goldencrowned kinglet, 28; cedar waxwing, 2; starling, 7; myrtle warbler, 3; English sparrow, 30; cardinal, 18; goldfinch, 10; towhee, 3; junco, 8; field sparrow, 6; white-crowned sparrow, 1 (seen by both observers); white-throated sparrow, 10; song sparrow, 15. Total, 28 species; 267 individuals.—W. C. Legg, Alton McClung.

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165. Charleston, W. Va. (bordering McCorkle Ave., Kanawha City Land Co., Porter's Hollow, Davis Creek from mouth to State Route 13, thence bordering State Route 13 to Kanawha River, Crescent Road; open farmland and grassland 30%, deciduous woodland 60%, pine woodland 8%, wooded swamp 2%).-Dec. 29; 8:30 a.m. to 8 p.m. Overcast with heavy fog at start, clear in p.m.; temp. 32° to 53° F.; wind calm to W, 8 m.p.h.; ground bare, water-soaked, water partly open. Nine observers in 7 parties. Total hours, 24 (23 on foot, 1 by car); total miles, 42 (22 on foot, 20 by car). Mallard, 1; scaup, 7; Cooper's hawk, 1; red-shouldered hawk, 1; sparrow hawk, 4; mourning dove, 12; barred owl, 1; red-bellied woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 24; blue jay, 8; crow, 2; Carolina chickadee, 135; tufted titmouse, 72; white-breasted nuthatch, 22; brown creeper, 3; Carolina wren, 36; robin, 1; hermit thrush, 4; bluebird, 8; golden-crowned kinglet, 7; starling, 185; English sparrow, 234; cardinal, 57; pine siskin, 1; goldfinch, 46; towhee, 17; slate-colored junco, 150; tree sparrow, 4; field sparrow, 12; white-throated sparrow, 7; song sparrow, 78. Total, 33 species; 1145 individuals.—Mrs. J. W. Handlan, Mrs. Robert D. Ketchum, Robert D. Ketchum, Sarah Barber, Lucy Barber, Sybil Ball, Eleanor Simms, W. R. DeGarmo, Wayne Bailey (Kanawha Chapter, Brooks Bird Club).

166. Huntington, W. Va. (same area as in 1940 and subsequent counts: open fields 50%, roadsides and deciduous woodland 50%).—Dec. 23. Slightly overcast; temp. 18° to 28° F.; wind W, 15-25 m.p.h.; 4-in. crusted snow. Twenty-two observers in 6 groups. Total hours, 22; total miles 38 (23 on foot, 15 by car). Canvas-back, 30; sparrow hawk, 2; bob-white, 15; herring

gull, 2; hairy woodpecker, 10; downy woodpecker, 40; blue jay, 37; crow, 238; Carolina chickadee, 152; tufted titmouse, 140; whitebreasted nuthatch, 12; brown creeper, 2; winter wren, 7; Carolina wren, 25; mockingbird, 9; robin, 9; hermit thrush, 1; bluebird, 22; golden-crowned kinglet, 3; ruby-crowned kinglet, 3; starling, 55; myrtle warbler, 22; English sparrow, 181; meadowlark, 15; cardinal, 88; goldfinch, 4; towhee, 54; junco, 161; tree sparrow, 4; fox sparrow, 1; white-throated sparrow, 6; song sparrow, 74. Total, 32 species; approximately 1424 individuals.-Rachael Wilson, Mrs. C. S. Wagers, Mrs. H. A. Resener, Lois Raine, Burton Raine, Mr. and Mrs. H. C. Hale, Mrs. C. W. Kerr, Mrs. Roy Wells, Mrs. Iva Nowlan, Nell Rose Hale, Virginia Cavendish, Mr. and Mrs. W. H. Odell, Mrs. Amos Culp, Mr. and Mrs. W. L. Garges, Grady Risen, Mrs. H. B. Shulz, Mrs. I. J. Kail, Clara Schlegel, Ralph M. Edeburn (Huntington Bird Study Club).

167. Morgantown, W. Va. (center of town to points up to about 8 miles west and northwest; Falling Run and other suburban areas, University farms and Municipal Airport, vicinity of Cheat Lake, Cooper's Rocks State Forest; deciduous woods 30%, brushy wasteland 30%, open farmland 20%, town suburbs 18%, hemlock woods 2%).-Dec. 26; 7:30 a.m. to 5 p.m. Cloudy, with freezing rain, sleet, and snow flurries at times; wind NW, 10-25 m.p.h.; temp. 36° to 26° F.; snow on ground at higher elevations only, more general toward evening; all still water frozen. Seven observers in 5 parties. Total hours, 24 (22 on foot, 2 by car); total miles 64 (24 on foot, 40 by car). Sparrow hawk, 2; bob-white, 12; ring-necked pheasant, 1; mourning dove, 5; screech owl, 1; flicker, 1; redbellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 15; prairie horned lark, 13; blue jay, 8; crow, 43; chickadee (sp.?), 36; tufted titmouse, 51; white-breasted nuthatch, 5; winter wren, 3; Carolina wren, 10; mockingbird, 2; hermit thrush, 1; bluebird, 6; migrant shrike, 1; starling, 63; myrtle warbler, 3; English sparrow, 113; cardinal, 83; goldfinch, 5; slate-colored junco, 90; tree sparrow, 34; fox sparrow, 2; song sparrow, 25. Total, 30 species; 637 individuals.-M. G. Brooks, I. B. Boggs, H. M. Bowers, D. W. Parsons, C. K. Peck, Richard Wiles, W. A. Lunk.

168. Mt. Lookout (Nicholas Co.) W. Va. (same area as in 1941 and subsequent counts; deciduous and hemlock woodland 74%, pine grove 1%, farmland 25%).—Dec. 26. Cloudy; temp. 32° to 30°; wind NW, 7-38 m.p.h.; much snow in woods. Two observers, separate in a.m., together in p.m. Total hours, 14 (on foot); total miles, 17 (on foot). Ruffed grouse, 8; mourning dove, 3; red-bellied woodpecker, 1; hairy woodpecker, 5; downy woodpecker, 8; blue jay, 13; crow, 6; chickadee, 10; tufted titmouse, 16; white-breasted nuthatch, 3; winter

wren, 3; Carolina wren, 1; robin, 35; hermit thrush 2; starling, 2; English sparrow, 27; cardinal, 47; goldfinch, 3; junco, 143; tree sparrow, 5; white-throated sparrow, 4; song sparrow, 8. Total, 22 species; 353 individuals. (Dec. 23: horned lark, 5; field sparrow, 1; Dec. 24: pileated woodpecker, 1.) –W. C. Legg, Alton McClung.

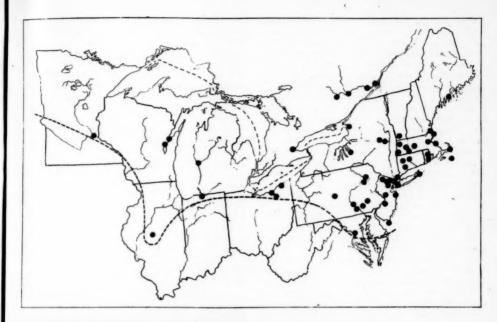
169. Bowling Green, Ky. (Chaney, McElroy, and Albert Covington farms; open farmland 25%, woodlots 50%, marsh 25%).-Dec. 23; 6:45 a.m. to 3 p.m. Heavy overcast all day, sleet from 1 p.m. on; wind NE, 19-24 m.p.h.; temp. 24° to 30° F.; snowbanks in shaded places; ponds frozen. Two observers together. Total hours, 81/4 (on foot); total miles, 8 (on foot). Mallard, 81; turkey vulture, 14; black vulture, 3; rough-legged hawk, 1; marsh hawk, 1; mourning dove, 96; flicker, 9; pileated woodpecker, 1; red-bellied woodpecker, 2; yellowbellied sapsucker, 3; hairy woodpecker, 2; downy woodpecker, 8; prairie horned lark, 352; blue jay, 22; crow, 507; Carolina chickadee, 16; tufted titmouse, 20; brown creeper, 2; Bewick's wren, 1; Carolina wren, 12; mockingbird, 10; robin, 48; hermit thrush, 4; bluebird, 83; cedar waxwing, 360; starling, 925; myrtle warbler, 1; English sparrow, 405; meadowlark, 2; cardinal, 126; purple finch, 5; goldfinch, 184; red-eyed towhee, 28; slate-colored junco, 162; tree sparrow, 3; field sparrow, 26; whitecrowned sparrow, 28; white-throated sparrow, 109; fox sparrow, 2; swamp sparrow, 4; song sparrow, 10. Total, 41 species; 3678 individuals. (Seen in area Dec. 21: red-headed woodpecker, 1; migrant shrike, 1; Dec. 22: red-tailed hawk, 1; belted kingfisher, 2.)-Charles L. Taylor, Gordon Wilson (Western Kentucky State Teachers College).

170. Louisville (Jefferson Co.), Ky. (same territory as in previous years; bank of Ohio River 20%, fields and farmlands 20%, brushy pastures and new growth 35%, deciduous woodlands 25%).—Dec. 23; dawn to dusk. Sunny in a.m., overcast and dark in p.m.; temp. 19° to 28°; wind 2-10 m.p.h.; 3-in. snow; creeks frozen, Ohio River filled with floating ice. Seventeen observers in 7 parties. Total hours, 41; total miles, 35 (on foot). Mallard, 533; black duck, 1676, ring-necked duck, 4; lesser scaup, 52; Am. golden-eye, 7; Am. merganser, 113; red-breasted merganser, 2 (F.S.C.); turkey vulture, 1; black vulture, 6; Cooper's hawk, 3; red-tailed hawk, 3; red-shouldered hawk, 6; marsh hawk, 11; sparrow hawk, 12; bob-white, 1 (dead); killdeer, 1; herring gull, 343; ring-billed gull, 91; rock dove, 102; mourning dove, 7; barred owl, 3; short-eared owl, 3 (B.L.M., Sr.); belted kingfisher, 11; flicker, 25; red-bellied woodpecker. 22; yellow-bellied sapsucker, 1; hairy woodpecker, 7; downy woodpecker, 48; horned lark, 141; blue jay, 71; crow, 629; Carolina chickadee, 76; tufted titmouse, 90; white-breasted nuthatch,

16: red-breasted nuthatch, 1 (H.B.L.); brown creeper, 10; winter wren, 1; Carolina wren, 18: mockingbird, 28; robin, 13; bluebird, 32; cedar waxwing, 16; migrant shrike, 5; starling, 4625 (inc. roost of 4500 in business section); myrtle warbler, 2; English sparrow, 458; meadowlark 36, rusty blackbird, 4; bronzed grackle, 1; cardinal, 422; purple finch, 22; goldfinch, 29; towhee, 67; slate-colored junco, 495; tree sparrow, 146; field sparrow, 5; white-crowned sparrow, 47; white-throated sparrow, 34; fox sparrow, 1; swamp sparrow, 9; song sparrow, 113. Total, 61 species; about 10,757 individuals. (Canvasback, 3, Dec. 24; hooded merganser, 1; screech owl, 1, Dec. 29.)-Harvey B. Lovell, Leonard Brecher, Wood Bousman, F. S. Carpenter, Sue Earnest, David McClure, B. L. Monroe, Sr., B. L. Monroe, Jr., Louis Pieper, Evelyn J. Schneider, Walter Shackleton, Mabel Slack, Anne Stamm, F. W. Stamm, S. Charles Thacher, Mrs. S. C. Thacher, Audrey Wright (Beckham chapter, Kentucky Ornithological Society).

171. Marion, Ky. (and vicinity; Ohio River bottoms below Cave-in-Rock Landing).-Dec. 30; dawn to dusk. Wind N, light; temp. 35°. Two observers, separate. Great blue heron, 1; Canada goose, 12; mallard, 80; black duck, 4; pintail, 6; canvas-back, 11; Am. golden-eye, 1; turkey vulture, 4; sharp-shinned hawk, 1; redtailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 2; bob-white, 11; coot, 1; herring gull, 75; mourning dove, 14; screech owl, 1; belted kingfisher, 1; flicker, 4; pileated woodpecker, 2; red-bellied woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 6; horned lark, 4; blue jay, 14; crow, 78; Carolina chickadee, 16; tufted titmouse, 12; white-breasted nuthatch, 1; Bewick's wren, 2; Carolina wren, 4; mockingbird, 4; robin, 8; bluebird, 26; cedar waxwing, 6; starling, 250; English sparrow, 100; meadowlark, 2; cowbird, 48; cardinal, 35; goldfinch, 18; towhee, 2; slate-colored junco, 14; tree sparrow, 4; field sparrow, 14; whitecrowned sparrow, 7; white-throated sparrow, 9; fox sparrow, 2; song sparrow, 12. Total, 50 species; about 928 individuals.-T. Atchison Frazer, Chastain L. Frazer.

172. Otter Creek, Ky. (Big Bend to Rock Haven; along railroad to Otter Creek; Blue Hole; Tall Trees; return through Camp Piomingo).—Dec. 30. Cloudy; misty, with several showers; wind 3-10 mp.h.; temp. 40° to 45°. Five observers on foot, mostly together. Total hours, 8; total miles, 10. Black duck, 2; Am. merganser, 1; bald eagle, 1 (ad.); bob-white, 11; herring gull, 18; belted kingfisher, 1; flicker, 4; pileated woodpecker, 2; red-bellied woodpecker, 4; yellow-bellied sapsucker, 4; hairy woodpecker, 1; downy woodpecker, 13; blue jay, 3; crow, 83; Carolina chickadee, 17; tufted titmouse, 15; white-breasted nuthatch, 10; Carolina wren; 8; robin, 170; hermit thrush, 5; blue-





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Photograph by W. Bryant Tyrrell

Evening grosbeaks seemed to concentrate their invasion in the Northeast last winter. The 68 different reports spotted above listed a total of 1722 of these birds; but these records cannot be considered as anything more than a sample of the mass flight as it appeared during the last week in December.

bird, 2; golden-crowned kinglet, 4; cedar waxwing, 10; starling, 1; myrtle warbler, 15; English sparrow, 6; cardinal, 46; purple finch, 19; goldfinch, 30; towhee, 8; slate-colored junco, 76; tree sparrow, 35; fox sparrow, 2; swamp sparrow, 6; song sparrow, 16. Total, 35 species; 649 individuals.—Harvey B. Lovell, Esther Mason, Evelyn Schneider, Floyd Carpenter, David McClure.

173. Uniontown, Ky. (from Uniontown along Ohio River past Poker's Point; Lake Des Islets; Morton's Lake in Camp Breckenridge reservation; Harding's Station). - Dec. 26; 9:30 a.m. to 5 p.m. Clear; cold W wind, 20-30 m.p.h.; temp. 30° to 42°. Total miles, 53 (49 by car, 4 on foot). Mallard, 78; canvas-back, 6; lesser scaup, 15; Am. golden-eye, 50; Am. merganser, 4; red-shouldered hawk, 1; roughlegged hawk, 1; marsh hawk, 1; sparrow hawk, 3; herring gull, 112; mourning dove, 12; barred owl, 1; belted kingfisher, 1; flicker, 4; red-bellied woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 10; horned lark, 33; blue jay, 1; crow, 67; Carolina chickadee, 17; tufted titmouse, 2; white-breasted nuthatch, 2; brown creeper, 3; Carolina wren, 2; mockingbird, 4; robin, 10; bluebird, 2; migrant shrike, 1; starling, 63; English sparrow, 85; meadowlark, 13; rusty blackbird, 9; cardinal, 40; purple finch, 1; goldfinch, 16; towhee, 6; slate-colored junco, 42; tree sparrow, 307; white-crowned sparrow, 9; white-throated sparrow, 7; song sparrow, 25. Total, 42 species; 1070 individuals.-Robert L.

174. Elizabethton, Tenn. (Watauga and Doe

rivers, Buffalo and Gap creeks, Holston and Lynn mountains).-Dec. 23; 7:30 a.m. to 5 p.m. Dense fog along streams until 10 a.m.: overcast all day; calm; temp. 17° at start, 40° at return; ground covered with about 1-in. snow except for bare south hillsides. Eight observers in 6 parties. Total hours afield, 35; total miles, 32 (on foot). Turkey vulture, 2; sparrow hawk, 6: killdeer, 3; mourning dove, 91; screech owl, 2; kingfisher, 1; flicker, 4; pileated woodpecker, 2; yellow-bellied sapsucker, 4; hairy woodpecker, 4; downy woodpecker, 29; phoebe, 1; prairie horned lark, 21; blue jay, 40; crow, 204; Carolina chickadee, 41; tufted titmouse, 49; winter wren, 2; Carolina wren, 39; mockingbird, 28; hermit thrush, 5; robin, 1; bluebird, 37; golden-crowned kinglet, 9; ruby-crowned kinglet, 3; cedar waxwing, 16; migrant shrike, 1; starling, 108; myrtle warbler, 58; English sparrow, 65; cardinal, 76; purple finch, 8; goldfinch, 116; towhee, 4; slate-colored junco, 112; field sparrow, 83; white-crowned sparrow, 43; whitethroated sparrow, 47; fox sparrow, 2; song sparrow, 46. Total, 40 species; about 1413 individuals .- Mr. and Mrs. Fred Behrend, J. C. Browning, Dr. and Mrs. Lee R. Herndon, Prof. Sam Jack Hyder, Nelta Hyder, W. .F. Pearson (Elizabethton Chapter, Tennessee Ornithological Society).

175. Great Smoky Mountains National Park, Tenn, (same area as in past 8 years; circle of 71/2-miles' radius centering on Bull Head of Mt. LeConte, including a section of the Tennessee-North Carolina divide from Indian Gap to Mt. Kephart; towns of Gatlinburg and Pigeon Forge; spruce-fir forest 30%, deciduous forest 15%, orchard 15%, open farmland and field borders 20%, abandoned fields 5%, stream courses 5%, towns and suburbs 10%).-Dec. 30; 7 a.m. to 4 p.m. Overcast and threatening in a.m., light rain in early p.m. which continued into the night; temp. 38° to 50° F.; wind mostly light and variable; ground bare up to altitude of approximately 3500 feet, snow-covered at higher elevations with snow blanket measuring 13 in. at 5000 feet. Altitude range 1200 to 6100 feet. Twenty-seven observers in 7 parties. Total party hours, 39; total miles, 130 (85 by car, 45 on foot). Black duck, 4; turkey vulture, 30; black vulture, 5; Cooper's hawk, 1; red-tailed hawk, 1; duck hawk, 1; sparrow hawk, 3; ruffed grouse, 6; bob-white, 12 (covey); wild turkey, 2; killdeer, 10; Wilson's snipe, 1; mourning dove, 110; kingfisher, 1; flicker, 5; pileated woodpecker, 5; hairy woodpecker, 6; downy woodpecker, 10; phoebe, 2; horned lark, 16; blue jay, 11; crow, 150 (est.); chickadee (both black-capped and Carolina observed), 98; tufted titmouse, 22; white-breasted nuthatch, 3; redbreasted nuthatch, 13; brown creeper, 9; winter wren, 9; Carolina wren, 8; mockingbird, 6; brown thrasher, 2; robin, 97; hermit thrush, 19; bluebird, 25; golden-crowned kinglet, 45; rubycrowned kinglet, 8; cedar waxwing, 1; starling,

33; myrtle warbler, 3; English sparrow, 72: meadowlark, 22; red-wing, 6; cowbird, 60; cardinal, 49; purple finch, 25; goldfinch, 54; red crossbill, 9; towhee, 14; vesper sparrow, 1; junco (both slate-colored and Carolina observed), 170; field sparrow, 81; white-throated sparrow, 53; swamp sparrow, 1; song sparrow, 32. Total, 56 species and subspecies; approximately 1442 individuals. (Seen in area Dec. 27; great blue heron, 1; Dec. 29: fox sparrow, 1. Tracks of raven observed in snow on day of count and one or two birds seen on several days during the month.)-Fred W. Behrend, Mr. and Mrs. Harvey Broome, Warren Burgus, Mary Ruth Chiles, Brockway Crouch, Thomas W. Finucane, Robert Garber, Ralph Garrett, Harry Henry, Lee Roy Herndon, Elizabeth Johnson, William M. Johnson, Mr. and Mrs. Frank Leonhard, Henri Levy, Charlton Mabry, James R. Mattocks, Mr. and Mrs. Franklin Odell, Jr., Winifred Odell, W. F. Pearson, Herbert Pomerance, Arthur Stupka, Roy A. Wedekind, Dorothy E. Williams, William Yambert (members and guests, Tennessee Ornithological Society and National Park Service).

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176. Greeneville, Tenn. (along Roaring Fork and Bays Mountain; woodland 65%, pastures 35%).—Dec. 26; 8:30 a.m. to 12:30 p.m., 2 to 4 p.m. Fair; temp. 35° to 44°; wind 30 m.p.h. Two observers in 1 party. Total hours, 6; total miles, 4. Turkey vulture, 5; black vulture, 1; sparrow hawk, 1; mourning dove, 147; flicker, 4; pileated woodpecker, 2; red-bellied woodpecker, 1; downy woodpecker, 3; prairie horned lark, 18; blue jay, 6; crow, 500 (est.); chickadee, 5; tufted titmouse, 7; white-breasted nuthatch, 2; Carolina wren, 7; mockingbird, 5; robin, 20; bluebird, 11; golden-crowned kinglet, 2; cedar waxwing, 2; migrant shrike, 1; starling, 105; myrtle warbler, 4; English sparrow, 4; meadowlark, 7; cardinal, 9; purple finch, 15; goldfinch, 11; towhee, 2; junco, 1; field sparrow, 2; white-crowned sparrow, 8; whitethroated sparrow, 5; song sparrow, 3. Total, 34 species; about 926 individuals. (Dec. 24: Canada goose, 18; Dec. 27: Bewick's wren, 1; Dec. 28: phoebe, 1.)-Ruth Reed Nevius, Richard Nevius.

177. Henderson, Tenn. (Henderson to lakes LaJoie and Placid in Chickasaw Park, Forked Deer River bottom from Highway 100 to railroad 2 miles south of Henderson, Logan's Lake).-Dec. 31; 8:30 a.m. to 12:30 p.m., 1:15 to 5:15 p.m. Cloudy; cold wind, NW; temp. 34°. Two observers. Total miles, 63 (56 by car, 7 on foot). Mallard, 35; ring-necked duck, 25; turkey vulture, 3; red-shouldered hawk, 4; marsh hawk, 1; killdeer, 4; Wilson's snipe, 1; barred owl, 4; belted kingfisher, 1; flicker, 10; pileated woodpecker, 2; red-bellied woodpecker, 6; red-headed woodpecker, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 5; blue jay, 14; crow, 10; chickadee, 16; tufted titmouse, 8; brown creeper, 1; winter wren, 2; Bewick's

wren, 3; Carolina wren, 8; mockingbird, 3; brown thrasher, 9; robin, 86; hermit thrush, 3; bluebird, 22; golden-crowned kinglet, 4; ruby-crowned kinglet, 1; cedar waxwing, 15; migrant shrike, 4; starling, 7; myrtle warbler, 1; English sparrow, 40; meadowlark, 2; red-wing, 1; rusty blackbird, 165; bronzed grackle, 4; cardinal, 25; purple finch, 2; goldfinch, 45; junco, 125; field sparrow, 36; white-crowned sparrow, 9; white-throated sparrow, 64; fox sparrow, 10; swamp sparrow, 5; song sparrow, 14. Total, 50 species; 870 individuals.—Robert L. Witt, William Malone.

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178. Memphis, Tenn. (same area as in previous years with exception no party in boat on river; city suburbs 10%, open pasturelands 15%, deciduous woodlots 40%, bottomlands 35%) .-Dec. 30; dawn to dusk. Heavy, low-hanging clouds; fog in a.m.; poor visibility; temp. 45°; wind SW in afternoon, 13-18 m.p.h.; water standing in open fields and bottomlands. Twenty-six observers in 7 parties. Total party hours, 56 (48 on foot, 8 in car); total party miles, 138 (58 on foot, 80 by car). Pied-billed grebe, 1; double-crested cormorant, 10; great blue heron, 16; Canada goose, 16; mallard, 6; wood duck, 1; ring-necked duck, 31; lesser scaup, 41; turkey vulture, 30; black vulture, 11; sharp-shinned hawk, 1; Cooper's hawk, 2; redtailed hawk, 13; red-shouldered hawk, 15; marsh hawk, 9; sparrow hawk, 22; bob-white, 95; coot, 1; killdeer, 27; herring gull, 2; ring-billed gull, 48; mourning dove, 78; barred owl, 1; belted kingfisher, 3; flicker, 74; red-bellied woodpecker, 35; yellow-bellied sapsucker, 9; hairy woodpecker, 16; downy woodpecker, 56; phoebe, 1; prairie horned lark, 11; blue jay, 176; crow, 118; fish crow, 11; Carolina chickadee, 166; tufted titmouse, 29; white-breasted nuthatch, 6; brown creeper, 15; winter wren, 10; Bewick's wren, 11; Carolina wren, 88; mockingbird, 177; brown thrasher, 18; robin, 2342 (includes 2000 seen in roost); hermit thrush, 8; bluebird, 73; golden-crowned kinglet, 89; ruby-crowned kinglet, 9; cedar waxwing, 29; migrant shrike, 36; starling, 6720; myrtle warbler, 222; English sparrow, common [come on, Memphis; count 'em up - Ed.]; meadowlark, 255; red-wing, 3445 (in several flocks); rusty blackbird, 150; Brewer's blackbird, 25; bronzed grackle, 2534; cowbird, 87; cardinal, 301; purple finch, 35; goldfinch, 218; towhee, 14; savannah sparrow, 7; slate-colored junco, 864; tree sparrow, 7; chipping sparrow, 1; field sparrow, 45; whitecrowned sparrow, 47; white-throated sparrow, 582; fox sparrow, 40; swamp sparrow, 30; song sparrow, 111. Total, 73 species; about 19,833 individuals. (In late afternoon 50,000+ blackbirds seen at roost in Elmwood Cemetery.)-Floy Barefield, Mrs. Ben B. Coffey, Jr., Mrs. Irene R. Daniel, Capt. Anna Davant, Mary Davant, Lincoln Emery, Jr., Mr. and Mrs. L. G. Guth, Mrs. Ruth Harrison, Pauline James, David Johnston, John Jolly, Luther F. Keeton, Lawrence C. Kent, Joe Mount, Clarence E. Moore, Kenneth Moore, Patricia Moore, Lt. Henry Parker, Herbert Shapiro, Alice Smith, Mrs. M. L. Torti, Maurice Torti, Jr., Robert Tucker, Rose Wooddridge Allen Ziegler

Rose Wooldridge, Allen Ziegler. 179. Nashville, Tenn. (Radnor Lake, Overton Hills forest, Hobb's to Tyne roads, Warner Cumberland Parks, Hillwood, Bellemeade, River bottoms of Bell's Bend and above Shelby Park, and Mill Creek; open fields 25%, dense woods 20%, wooded pastures 30%, thickets and old fields 30%).-Dec. 23; 7 a.m. to 4 p.m. Cloudy in a.m. with poor visibility; light rain continuously after 1 p.m.; temp. 31° to 33° F.; N wind, light; ground frozen and bare after having been snow-covered for a week. Twenty observers in 9 parties. Total party hours, 110; total miles, 66 (26 on foot, 40 by car). Great blue heron, 1; pied-billed grebe, 1; mallard, 150; black duck, 5; gadwall, 5; ring-necked duck, 7; canvas-back, 2; lesser scaup, 10; Am. goldeneye, 1; buffle-head, 4; ruddy duck, 2; red-tailed hawk, 9; red-shouldered hawk, 2; marsh hawk, 5; sparrow hawk, 12; bob-white, 31 (at 5 locations); coot, 5; killdeer, 11; Wilson's snipe, 1; herring gull, 7; mourning dove, 121 (120 together); great horned owl, 1; barred owl, 3; belted kingfisher, 6; flicker, 29; pileated woodpecker, 12; red-bellied woodpecker, 20; redheaded woodpecker, 1; yellow-bellied sapsucker,

21 (more common than usual); hairy wood-

pecker, 9; downy woodpecker, 43; phoebe, 2;

horned lark, 315 (2 flocks); blue jay, 42; crow,

74; Carolina chickadee, 90; tufted titmouse, 41;

white-breasted nuthatch, 2; brown creeper, 17;

winter wren, 4; Bewick's wren, 1; Carolina

wren, 53; mockingbird, 82; robin, 310,000 (300,-

000 estimated at a roost); hermit thrush, 11; bluebird, 98; golden-crowned kinglet, 1; cedar waxwing, 29; migrant shrike, 3; starling, 1775; myrtle warbler, 23; English sparrow, 330; meadowlark, 112; rusty blackbird, 67 (65 in 1 flock); cowbird, 227; bronzed grackle, 15; cardinal, 217; purple finch, 46; pine siskin, 3 (with goldfinches); goldfinch, 67; red-eyed towhee, 91; slate-colored junco, 218; field sparrow, 173; white-crowned sparrow, 25; white-throated sparrow, 85; fox sparrow, 5; swamp sparrow, 9; song sparrow, 76. Total, 68 species; approximately 314,966 individuals. (The robin concentration is the largest of local midwinter record and the roost, in a 60-acre crab-apple thicket, has been building up since summer; estimate by A.F.G. and G.R.M.)-B. H. Abernathy, John

B. Calhoun, Wm. Crouch, Jane Farrar, Albert

F. Ganier, Bob Hickerson, Helen M. Howell,

Phillip Humphries, James Lane, Mrs. Amelia R.

Laskey, G. R. Mayfield, Donald Maynard, James

Robins, Edw. Schreiber, Robert Sollmann,

Walter R. Spofford, Luttrell Thomas, H. S.

Vaughn, W. M. Walker, G. B. Woodring (mem-

bers, Nashville Chapter, Tennessee Ornithologi-

cal Society).

180. Birmingham, Ala. (Edgewood Lake,

Lake Purdy, Oak Mountain State Park; center of area approximately same as previous year; mixed hardwood and pine 50%, lake front 25%, pine woods 5%, uncultivated fields and pastures 20%).-Dec. 29. Heavily overcast (stratus); temp, 43° to 47°; wind SSW, 0-8 m.p.h.; ground bare. Six observers in 2 parties. Total hours, 23; total miles, 17. Pied-billed grebe, 15; great blue heron, 1; mallard, 2; pintail, 1; ring-necked duck, 300; canvas-back, 6; lesser scaup, 150; golden-eye, 1; ruddy duck, 120; turkey vulture, 1; Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 1; coot, 1000; killdeer, 13; mourning dove, 5; belted kingfisher, 6; flicker, 29; pileated woodpecker, 6; red-bellied woodpecker, 21; redheaded woodpecker, 1; yellow-bellied sapsucker, 3; hairy woodpecker, 12; downy woodpecker, 14; red-cockaded woodpecker, 7; phoebe, 4; blue jay, 36; crow, 27; Carolina chickadee, 36; tufted titmouse, 39; white-breasted nuthatch, 18; brownheaded nuthatch, 16; brown creeper, 7; winter wren, 11; Bewick's wren, 4; Carolina wren, 53; mockingbird, 14; brown thrasher, 11; robin, 46; hermit thrush, 4; bluebird, 19; golden-crowned kinglet, 57; ruby-crowned kinglet, 28; Am. pipit, 40; cedar waxwing, 77; loggerhead shrike, 4; starling, 50; myrtle warbler, 7; pine warbler, 11; English sparrow, 10; meadowlark, 33; cowbird, 30; cardinal, 38; purple finch, 70; goldfinch, 55; red-eyed towhee, 58; savannah sparrow, 9; vesper sparrow, 20; slate-colored junco, 132; chipping sparrow, 3; field sparrow, 90; whitethroated sparrow, 200; fox sparrow, 4; swamp sparrow, 20; song sparrow, 43. Total, 66 species; 3152 individuals.-M. F. Prather, Morton Perry, Henry Stevenson, Samuel R. Tipton, Bernard Clowdus, Bill Walker.

181. Mobile, Ala. (Oak Hill golf course, Crichton, Spring Hill, and return; deciduous swamp 40%, open drained swamp 30%, pine woods, 20%, suburban 10%).-Dec. 22; 6:30 a.m. to 4 p.m. Clear; ground bare, heavy frost; temp. 41° to 64°. Total miles, 22 (20 on foot, 2 by bus); total hours, 91/2. Pied-billed grebe, 3; turkey vulture, 2; black vulture, 7; sharpshinned hawk, 2; killdeer, 43; bob-white, 2; ground dove, 4; mourning dove, 36; flicker, 11; red-bellied woodpecker, 8; downy woodpecker, 2; phoebe, 3; tree swallow, 16; blue jay, 51; crow, 1; Carolina chickadee, 3; tufted titmouse, 4; brown creeper, 3; house wren, 3; winter wren, 1; Bewick's wren, 1; Carolina wren, 10; mockingbird, 31; brown thrasher, 10; robin, 730+; hermit thrush, 2; bluebird, 5; goldencrowned kinglet, 7; ruby-crowned kinglet, 22; cedar waxwing, 4; loggerhead shrike, 5; starling, 11; white-eyed vireo, 3; orange-crowned warbler, 2; myrtle warbler, 66; pine warbler, 2; yellow-throat, 2; English sparrow, 14; meadowlark, 27; red-wing, 300+; purple grackle, 5; cowbird, 26; cardinal, 13; indigo bunting, 1 (blue in wings and tail seen at close range); purple finch, 17; goldfinch, 29; towhee, 5; junco, 1; field sparrow, 3; white-throated sparrow, 140; swamp sparrow, 12; song sparrow, 2. **Total**, 52 species; about 1713 individuals.—W. W. Frech.

182. Tuscaloosa, Ala. (same area as in 1944: mixed pine and hardwoods 85%, pine 5%, fields 10%).-Dec. 27; 7:30 a.m. to 3 p.m. Overcast; rain starting at 2:45 p.m.; wind N, 1-15 m.p.h., diminishing to 1-3 in p.m.; temp. 35° to 45° F. Three observers together. Total hours, 71/2 (7 on foot, 1/2 in car); total miles, 9 (1 by car). Marsh hawk, 1; sparrow hawk, 2; killdeer, 37; kingfisher, 2; flicker, 6; red-bellied woodpecker, 4; red-headed woodpecker, 2; yellow-bellied sapsucker, 6; downy woodpecker, 2; blue jay, 100; crow, 2; Carolina chickadee, 15; tufted titmouse, 5; brown creeper, 2; Carolina wren, 8; mockingbird, 18; brown thrasher, 4; robin, 14; hermit thrush, 2; bluebird, 20; blue-gray gnatcatcher, 1 (observed at 6 ft. - S.R.T.); golden-crowned kinglet, 12; ruby-crowned kinglet, 47; cedar waxwing, 50; starling, 57; myrtle warbler, 4; pine warbler, 1; English sparrow, 12; meadowlark, 5; bronzed grackle, 250; cardinal, 11; purple finch, 7; goldfinch, 58; red-eyed towhee, 30; savannah sparrow, 11; junco, 37; field sparrow, 42; white-throated sparrow, 115; fox sparrow, 3; song sparrow, 5. Total, 40 species; 1010 individuals.-Samuel R. Tipton, Isabel H. Tipton, Marjorie M. Ayers.

183. Wheeler National Wildlife Refuge, Decatur, Ala. (refuge and vicinity around Tennessee River; 20% shoreline, 50% fields, 30% woods).-Dec. 28; 7:30 a.m. to 6 p.m. Mist, rain, and overcast; wind SE, 5 m.p.h.; temp. 40° at start, 42° at return; ground bare. Two observers in 1 party. Total miles, 40 (10 by foot, 30 by car); total party hours, 101/2. Double-crested cormorant, 41; great blue heron, 18; Canada goose, 200; mallard, 3000; black duck, 1000; baldpate, 29; Am. pintail, 300; Am. golden-eye, 1; hooded merganser, 66; Am. merganser, 1; turkey vulture, 6; black vulture, 4; red-tailed hawk, 2; marsh hawk, 3; duck hawk, 1; sparrow hawk, 1; bob-white, 16; killdeer, 1; herring gull, 2; ring-billed gull, 6; mourning dove, 75; barred owl, 1; belted kingfisher, 12; flicker, 3; pileated woodpecker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 4; downy woodpecker, 8; horned lark, 41; blue jay, 35; crow, 24; Carolina chickadee, 16; tufted titmouse, 4; Carolina wren, 2; mockingbird, 28; robin, 28; bluebird, 24; golden-crowned kinglet, 2; ruby-crowned kinglet, 3; cedar waxwing, 76; shrike, 2; starling, 125; myrtle warbler, 1; palm warbler, 2; English sparrow, 150; meadowlark, 71; red-wing, 300; rusty blackbird, 50; purple grackle, 50; cardinal, 26; purple finch. 45; goldfinch, 29; red-eyed towhee, 26; grasshopper sparrow, 10; slate-colored junco, 16; field sparrow, 73; white-throated sparrow, 50; fox sparrow, 2; swamp sparrow, 20; whitecrowned sparrow, 4; song sparrow, 26. **Total**, 63 species; about 6168 individuals.—Paul Bryan, Lawrence S. Givens.

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184. Indianola, Miss. (east of town for a mile along wooded bayou, mostly cypress, 40 of which are hollow; return along pastures, cottonfields, and hedgerows; by car southwest to artificial pond, and return through scattered Negro settlement with cedars; on foot through parks and residential area).-Dec. 25; 7 a.m. to 12 m., 1 p.m. to dusk. Clear; temp. 40° at 6 a.m., slight rise during day, 40° at dusk; wind NW; ground wet from heavy rain the night before. One observer all day, 2 in p.m. Total hours, 10; total miles, 4 (1 by car). Great blue heron, 2; black duck, 3; black vulture, 7; sharp-shinned hawk, 1; sparrow hawk, 3 (this species has nested in dome of courthouse for more than 35 years); killdeer, 4; mourning dove, 2; barred owl, 3 (heard); barn owl, 8 (young in nests 1/4 mile apart); flicker, 11; red-bellied woodpecker, 1; red-headed woodpecker, 6; downy woodpecker, 1; yellow-bellied sapsucker, 1; blue jay, 14; black-capped chickadee, 3; mockingbird, 10; brown thrasher, 7; robin, 20; bluebird, golden-crowned kinglet, 3; ruby-crowned kinglet, 1; cedar waxwing, 13; loggerhead shrike, 2; starling, 20; English sparrow, 100; meadowlark, 6: grackle, 500 (est.); cardinal, 50; purple finch, 3: goldfinch, 5; towhee, 3; vesper sparrow, 1; chipping sparrow, 3; white-throated sparrow, 50; song sparrow, 1. Total, 37 species; about 869 individuals.-Townsend Boyer, John Weldon Bover.

185. Ann Arbor, Mich. (Huron River valley and adjoining areas from 7 miles northeast of town to 5 miles southeast of town; oak-hickory 16%, bottomland woods and river 32%, brushy fields 24%, pine plantations 11%, roads and farmland 17%).-Dec. 23; 7:45 a.m. to 5 p.m. Fair; temp. 6°-12° F.; wind NW, 1-8 m.p.h.; 5-in. snow; river 5/6 frozen over. Five observers in 2 parties. Total hours, 161/2 (15 on foot, 11/2 in car); total miles, 49 (26 on foot, 23 in car). Great blue heron, 1; mallard, 25; black duck, 75; Am. golden-eye, 1; Am. merganser, 9; buteo (sp. ?) 1; sparrow hawk, 1; ring-necked pheasant, 16; herring gull, 1; mourning dove, 14; belted kingfisher, 2; red-headed woodpecker, 5; hairy woodpecker, 6; downy woodpecker, 17; horned lark, 2; blue jay, 31; crow, 22; blackcapped chickadee, 34; tufted titmouse, 23; whitebreasted nuthatch, 14; brown creeper, 2; robin, 1; starling, 8; English sparrow, 245; cardinal, 17; goldfinch, 4; slate-colored junco, 28; tree sparrow, 50; song sparrow, 4. Total, 29 species; about 659 individuals.-Robert Patterson, J. J. Hickey, Jeanne Moore, Maxine Miles, H. W.

186. Battle Creek, Mich. (Irving Park, Battle Creek River, Kalamazoo River west of city to Augusta, to Gull Lake and return; 5 feeding

stations; in parts of Calhoun and Kalamazoo counties; open farmland 15%, wooded river and stream banks 50%, shrubby fence rows and highway growths 25%, lake front 10%, marsh 3%, coniferous plantings 2%).—Dec. 30; 8 a.m. to 5 p.m. Cloudy, raining in early morning, changing to light snow in afternoon; visibility poor; about 3-in. old snow and ice (3 weeks' accumulation, snow starting Dec. 10); all lakes frozen, many of streams in places; no wind in morning, 8-12 m.p.h., N in p.m.; temp. 37° in a.m., 28° in p.m. Twelve observers in 3 parties. Total miles, 75 (71 by car, 4 on foot); total hours, approximately 48. Canada goose, 1000 (est. on ice on Gull Lake-M.D.P.); mallard, 17; black duck, 18 (also raft of 1500 [est.] mallards and black ducks on ice at Gull Lake-M.D.P.); Am. golden-eye, 36; Am. merganser, 4; sharp-shinned hawk, 1; Am. rough-legged hawk, 1; bob-white, 30; herring gull, 3; barred owl, 1; belted kingfisher, 2; red-bellied woodpecker, 3; hairy woodpecker, 4; downy woodpecker, 22; blue jay, 22; crow, 6; chickadee, 46; tufted titmouse, 17; white-breasted nuthatch, 14; brown creeper, 2; starling, 36; English sparrow, 78; cardinal, 42; goldfinch, 12; slatecolored junco, 58; tree sparrow, 57; song sparrow, 3. Total, 27 species; about 3035 individuals.-Edward M. Brigham, Jr., Edward M. Brigham, 3rd, Mrs. L. C. Nielsen, Mr. and Mrs. N. Theodore Peterson, Miles D. Pirnie, J. Murray Speirs, Mrs. H. J. Theis, Mr. and Mrs. Halbert B. Wood, Frederick Woodard, Lawrence H. Walkinshaw.

187. Detroit, Mich. (centering at 14 Mile and Lahser Roads and extending to Pontiac on the north, 7 Mile Road on the south, Big Beaver on the east and Drake Road on the west; area covered includes about 25% of territory covered in all previous counts; open farm and grassland 20%, swamps, lake shores, and stream banks 40%, conifer groves 10%, mature deciduous woodlands 10%, second-growth deciduous woodlands 10%, town suburbs 10%).-Dec. 23; 8 a.m. to 5 p.m. Cloudy and snowing until 10 a.m., clear remainder of the day; temp. 13° to 16° F.; wind ESE, less than 1 m.p.h. all day; ground covered with 3-in. snow; all lakes frozen; few small streams open. Eighteen observers in 3 parties. Total hours, 24 (22½ on foot, 1½ by car); total miles, 63 (27 on foot, 35 by car). Mallard, 85; black duck, 12; wood duck, 1; marsh hawk, 1; sparrow hawk, 1; pheasant, 18; herring gull, 12; mourning dove, 45; snowy owl, 2; downy woodpecker, 13; hairy woodpecker, 3; blue jay, 23; crow, 5; black-capped chickadee, 79; tufted titmouse, 15; red-breasted nuthatch, 1; white-breasted nuthatch, 15; golden-crowned kinglet, 1; starling, 6; English sparrow, 475 (est.); cardinal, 13; junco, 93; tree sparrow, 123; song sparrow, 2. Total, 24 species; about 1044 individuals. (The mourning doves were feeding at straw stacks and feeding stations at 3 places.)—Oscar Noren, Evelyn Dowlding,

Dorothy Dowlding, Bob Burns, Douglas White, Tom Hadley, Arlene Hadley, A. Mead, Bob McCoy, Tom Roby, Jerry Battle, Bruce Bishop, Bob Youngs, Doris Sibley, Anne Vanderheide, Geraldine Irey, Catherine Spence, Walter P. Nickell (Detroit Audubon Club).

188. Marne, Mich. (Baker Sanctuary and 1 mile east to Sand Creek; Grand River at Grand Haven, back on M50; cattail marsh 1%, deciduous woods 30%, fields and pastures 50%, river and stream 15%, coniferous woods 4%).-Dec. 26; dawn to dusk. Cloudy; temp. 30° to 33°; wind NW, 15-18 m.p.h.; 6-in. snow; rivers and streams frozen, inland lakes completely frozen. Total hours, 9; total miles, 50 (46 by car. 4 on foot). Scaup, 3; Am. golden-eye, 34; old-squaw, 1; hooded merganser, 1; Am. merganser, 15; Cooper's hawk, 1; red-shouldered hawk, 1; ring-necked pheasant, 35; herring gull, 500 (est.); mourning dove, 2; flicker, 1; hairy woodpecker, 2; downy woodpecker, 8; blue jay, 1; crow, 5; black-capped chickadee, 15; tufted titmouse, 16; white-breasted nuthatch, 8; starling, 112; English sparrow, 42; cardinal, 15; slate-colored junco, 16; tree sparrow, 21. Total, 23 species; 855 individuals.-Emilie and Bernard Baker.

189. Muskegon, Mich. (scrub oak, riverbottom, along shore of Muskegon Lake to channel and wooded dunes along Lake Michigan) .-Dec. 30; 9:30 a.m. to 6 p.m. Foggy, overcast; drizzle to light snow in a.m., clearing somewhat in p.m.; temp. 35°; wind NNW, 10 m.p.h. Total miles 15-20 (in cars, on foot, and by bus in business section). Greater scaup, 20; Am. golden-eye, 24; old-squaw, 10; Cooper's hawk, 1; ring-necked pheasant, 4; herring gull, 1306; rock dove, 111; red-headed woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 2; horned lark, 4; blue jay, 5; crow, 3; black-capped chickadee, 18; white-breasted nuthatch, 1; starling, 101; English sparrow, 290; cardinal, 7; evening grosbeak, 7; pine grosbeak, 5; goldfinch, 22; slate-colored junco, 36; tree sparrow, 10. Total, 23 species; 1990 individuals.—Bonnie Jean Gillette, Joyce Boyne, Betty Toman, Almeda Boulton, Beverly Holcomb, Freda Fox, Don Russell, Cecil Kersting, Allan Sietsema, Bill McHenry, Bernard Harrell, Philip Glotfelty III, Paul Elliott, James Nutt, Margaret Drake Elliott (Muskegon County Bird Club).

190. Bedford, Ind. (North M St. from 5th; through fields north of Milwaukee Belt railroad and west of Monon railroad through Old Standard Woods; along Belt railroad and woods to the north as far as Salt Creek bridge; creek bluff to highway No. 37; north along Salt Creek bottom to small creek about ¼ mile south of Spinecopse Road; east to Peerless Road near Dive School; south on Breckenridge Road; deciduous woodland 65%, abandoned fields and pastures 25%, mixed pine and hardwoods 5%, yards and gardens 5%).—Dec. 26; 7 a.m. to

4:45 p.m. Overcast; low visibility in a.m., clear after noon; wind SW, 30 m.p.h. in a.m., 12 m.p.h. in late p.m.; temp. 27° at start, 30° at return; 4-in. crusted snow. Three observers, together part of the time. Total hours, 141/2; total miles, 18 (on foot). Canada goose, 11; turkey vulture, 1; marsh hawk, 1; sparrow hawk, 1; screech owl, 1; red-bellied woodpecker, 1; downy woodpecker, 1; blue jay, 14; crow, 26; black-capped chickadee, 27; tufted titmouse, 27; white-breasted nuthatch, 2; brown creeper, 2; Carolina wren, 4; mockingbird, 1; shrike, 1; starling, 3; English sparrow, 103; grackle, 2; cardinal, 60; goldfinch, 23; towhee, 5; slatecolored junco, 29; tree sparrow, 12; song sparrow, 10. **Total**, 25 species; 368 individuals.—Max Heider, Phyllis Thoroman, Carleton Thoroman, Carl oman.

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191. Crawfordsville, Ind. (to Shades Park near Waveland, along Sugar Creek, through Pine Hills Park; mostly in wooded regions). -Dec. 30; 9 a.m. to 3:30 p.m. Rain, sleet, and light snow all day; cold W wind; temp. 15° to 25°. Three observers. Total miles, 40 (30 by car, 10 on foot). Sharp-shinned hawk, 1; sparrow hawk, 2; rock dove, 2 (roosting in hollows in rocks along Sugar Creek); mourning dove, 17; great horned owl, 1 (dead; impaled on barbed-wire fence); red-bellied woodpecker, 1; red-headed woodpecker, 9; downy woodpecker, 3; blue jay, 4; crow, 17; blackcapped chickadee, 4; tufted titmouse, 13; whitebreasted nuthatch, 1; brown creeper, 1; starling, 7; English sparrow, 141; cardinal, 3; goldfinch, 2; slate-colored junco, 16; tree sparrow, 8. Total, 20 species; 253 individuals.—Howard H. Vogel, Jr., Daniel B. Ward, Byron S. Linge-

192. Lafayette, Ind. (McCormick's Woods, Blackbird Pond, Headley's Lake, Wabash River, to 6 miles below, return by back roads; town 10%, deciduous woods 20%, open farmland and fields 35%, river bottom 30%, pond 5%).-Dec. 26; 6 a.m. to 5 p.m. Heavily overcast; wind W, 20 m.p.h. until 3 p.m., 13 m.p.h. at 5 p.m.; temp. 28° to 33° to 28° F.; rising barometer; 10-in. crusted snow; ponds frozen, river 95% covered with ice. Two observers alone and 1 party. Total hours, 13 (12 on foot, 1 by car); total miles, 17 (12 on foot, 5 by car). Canada goose, 85; Am. golden-eye, 16; Am. merganser, 6; red-tailed hawk, 2; redshouldered hawk, 1; Am. rough-legged hawk, 1; hawk (buteo sp.?), 1; bob-white, 5; pheasant, 1; herring gull, 1; rock dove, 18; mourning dove, 5; barn owl, 1; flicker, 2; red-bellied woodpecker, 7; hairy woodpecker, 1; downy woodpecker, 16; horned lark, 30; blue jay, 12; crow, 23; black-capped chickadee, 4; tufted titmouse, 22; white-breasted nuthatch, 4; brown creeper, 4; Carolina wren, 2; bluebird, 2; starling, 31; English sparrow, 123; bronzed grackle, 2; cardinal, 19; purple finch, 1; slate-colored

junco, 44; tree sparrow, 94; song sparrow, 26; Lapland longspur, 3. Total, 34 species; 615 individuals.—Henrietta Ball, I. W. Burr, Terry Burr, Mrs. D. C. Canfield, M. S. Webster.

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193. South Bend, Ind. (same area as in 1944 count; deciduous woodlands 45%, open farmland 20%, marsh 20%, open river 10%, cedar and spruce groves 5%).-Dec. 30; dawn to dusk. Overcast with intermittent snow and rain; temp. 33° to 36° F.; wind NW, 8-15 m.p.h.; ground covered with snow up to 1 ft. in depth; creeks and river open, lakes frozen. Nine observers in 4 parties. Total hours, 291/2 (on foot); total miles, 38 (on foot). Mallard, 4; lesser scaup, 11; Am. golden-eye, 383; Am. merganser, 14; red-shouldered hawk, 1; sparrow hawk, 1; bobwhite, 2; ring-necked pheasant, 2; herring gull, 140; rock dove, 5; mourning dove, 1; shorteared owl, 1; belted kingfisher, 4; red-headed woodpecker, 3; yellow-bellied sapsucker, 2; hairy woodpecker, 5; downy woodpecker, 14; blue jay, 46; crow, 394; black-capped chickadee, 41; tufted titmouse, 17; white-breasted nuthatch, 15; red-breasted nuthatch, 2; brown creeper, 1; winter wren, 1; robin, 1; golden-crowned kinglet, 6; starling, 1146; English sparrow, 109; cardinal, 41; evening grosbeak, 11; goldfinch, 2; slate-colored junco, 137; tree sparrow, 66; song sparrow, 1. Total, 35 species; about 2630 individuals.-Mr. and Mrs. M. C. Farrar, U. F. Coleman, E. E. Rodgers, M. D. Harbaugh, Bro. Edwin, R. Rogers, V. E. Doan, C. K. Barnes (South Bend Audubon Society).

194. Champaign - Urbana, Ill. (Sangamon River floodplain near White Heath, Busey Pasture, Brownfield and Trelease Woods, city garbage dump, intermediate farmland; approximately 60% forest, 30% shrubby fields, 10% open country).-Dec. 29; 8 a.m. to 4:30 p.m. Overcast; moderate SSW wind; temp. 34° to 37° F.; ground covered with snow. Six observers in 2 parties in a.m., 3 parties in p.m. Total party hours, 91/2 (on foot); total party miles, 9 (on foot). Mallard, 16; red-tailed hawk, 4; redshouldered hawk, 1; marsh hawk, 1; bob-white, 1 (call); ring-necked pheasant, 2; mourning dove, 2; great horned owl, 2; belted kingfisher, 1; flicker, 1; red-bellied woodpecker, 20; redheaded woodpecker, 2; hairy woodpecker, 8; downy woodpecker, 32; blue jay, 39; crow, 160; black-capped chickadee, 17; tufted titmouse, 33; white-breasted nuthatch, 11; brown creeper, 2; Carolina wren, 1; robin, 4; golden-crowned kinglet, 9; starling, 150; English sparrow, 65; cardinal, 65; purple finch, 1; goldfinch, 12; slate-colored junco, 73; tree sparrow, 9; song sparrow, 3. Total, 31 species; 747 individuals. Small number of wintering starlings in contrast to last year (7500±).-W. V. Balduf, S. G. Baldwin, Don Duncan, W. M. Luce, A. F. Satterthwait, S. C. Kendeigh.

195. Chautauqua National Wildlife Refuge, Havana, Ill. (same area as in 1944 count: Chau-

taugua refuge and Ouiver Creek bottoms: water and marsh edge 70%, agricultural lands 30%). Dec. 23; 7:30 a.m. to 5 p.m. Clear in a.m., cloudy in p.m.; 6-in. crusted snow; wind E, 3-15 m.p.h.; temp. 20° to 29°; lakes frozen, creek open. Total hours afield, 9; total miles, 24 (6 on foot, 18 by car). Canada goose, 185; mallard, 2600 (small number attributable to earlier peak migration [420,000 on Nov. 14], small flight in general through Illinois River valley, the early freezing over of the lake on Dec. 12, and difficult local feeding conditions occasioned by ice and snow in the fields); black duck, 300; wood duck, 3; Am. golden-eye, 5; Cooper's hawk, 1; red-tailed hawk, 3; bald eagle, 14 (9 ad., 5 imm.); marsh hawk, 1; bobwhite, 6; pheasant, 2; coot, 1; ring-billed gull, 68; mourning dove, 5; screech owl, 2; redbellied woodpecker, 9; red-headed woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 16; blue jay, 12; crow, 26; black-capped chickadee, 39; tufted titmouse, 12; white-breasted nuthatch, 6; starling, 120; English sparrow, 66; cardinal, 38; slate-colored junco, 171; tree sparrow, 135. Total, 29 species; about 3850 individuals.-Louis H. Ellebrecht.

196. Elsah, Ill. (Principia College campus to Chautaugua and Lock Haven and return) .-Dec. 31; 8:30 a.m. to 4:30 p.m. Cloudy with occasional snowfall; ground lightly covered with snow; wind moderate, NW; temp. 24° at start, 22° at return. Four observers, mostly together. Total hours afield, 8 (4 on foot, 4 by car); total miles, 24 (8 on foot, 16 by car). Red-tailed hawk, 13; herring gull, 1; red-bellied woodpecker, 5; blue jay, 10; crow, 19; blackcapped chickadee, 14; titmouse, 22; red-breasted nuthatch, 1; grackle, 1; English sparrow, 11; cardinal, 21; slate-colored junco, 205; tree sparrow, 275; song sparrow, 1. Total, 14 species; 599 individuals.—George B, and George M. Happ, A. L. and E. Hinman.

197. Evanston, Ill. (same area as in 1943-Memorial Park Cemetery, Harms Woods, Morton Grove, shore of Lake Michigan in Evanston, and Wilmette Harbor; hardwoods 30%, agricultural fields and weed patches 50%, lake shore 20%).-Dec. 29; 9 a.m. to 4 p.m. Overcast and foggy, mist after 10:30 a.m.; wind 8-10 m.p.h., SW; crusted snow overlaying 1/2-in. ice on ground; temp. 32° to 38°; streams and ponds frozen but Lake Michigan open. Four observers together. Total hours afield, 15; total miles, 16 (14 by auto, 2 on foot). Am. goldeneye, 23 (only 1 adult 3; Am. merganser, 2 (imm.); Cooper's hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 1; pheasant, 2; herring gull, 14; downy woodpecker, 2; blue jay, 1; crow, 22; black-capped chickadee, 3; starling, 30; English sparrow, 12; cardinal, 4; redpoll, 8; goldfinch, 1; slate-colored junco, 1. Total, 17 species; 128 individuals. The decided scarcity of birds combined with unsatisfactory observational conditions resulted in a poor list. The

absence of tree sparrows, song sparrows, hairy woodpecker, nuthatches, and creepers can hardly be explained by the weather, since food is still available.—Philip A. DuMont, Mrs. John Helmer, Mrs. John R. Mannix, Mrs. Paul A. Stephenson (Evanston Bird Club).

198. Lisle (DuPage Co.), Ill. (800 acres within the Morton Arboretum).-Dec. 30; 9:30 a.m. to 4 p.m. Clear; NW wind; temp. 25°; ground covered with 4-in. crusted snow. Thirteen observers together using 3 autos. Total miles, 16 (10 by car, 6 on foot). Cooper's hawk, 1; redshouldered hawk, 1; sparrow hawk, 1; ringnecked pheasant, 3; herring gull, 11; great horned owl, 1; long-eared owl, 2; short-eared owl, 4; saw-whet owl, 1; belted kingfisher, 1; hairy woodpecker, 1; downy woodpecker, 3; blue jay, 5; crow, 10; black-capped chickadee, 6; tufted titmouse, 1; golden-crowned kinglet, 3; starling, 4; English sparrow, 4; cardinal, 3; pine siskin, 18; goldfinch, 22; slate-colored junco, 11; tree sparrow, 1. Total, 24 species; 118 individuals.-Mrs. Baldwin, Mr. Bartel, Mr. Clark, Crag Orear, Miss Draheim, Mrs. Gelatis, Mr. and Mrs. Grosboll, Mrs. Kroehler, Mrs. Lilly, Mr. Nork, Mr. Schonog, James Watson (Chicago Ornithological Society).

199. Marquette Park, Grafton, Ill. (along Illinois River: about 20 miles below Michael, on opposite side of the river).—Dec. 29; 8 a.m. to 4 p.m. Overcast in a.m., light drizzle in p.m.; wind 1-7 m.p.h.; temp. 28° to 35°; light snow on ground; water frozen. Three observers together. Total hours, 8; total miles, 10-12 (mostly on foot). Canada goose, 23; mallard, 1000 (est.); green-winged teal, 1; Am. golden-eye, 6; Am. merganser, 25; red-tailed hawk, 2; bald eagle, 5; marsh hawk, 1; sparrow hawk, 5; bobwhite, 36; ring-necked pheasant, 1; ring-billed gull, 100 (est.); great horned owl, 2; barred owl, 1; flicker, 25; pileated woodpecker, 10; redbellied woodpecker, 5; red-headed woodpecker, 350 (est.); hairy woodpecker, 5; downy woodpecker, 35; horned lark, 1; blue jay, 25; crow, 500 (est.); black-capped chickadee, 50; tufted titmouse, 150 (est.); white-breasted nuthatch, 6; Carolina wren, 25; marsh wren, 1; mockingbird, 2; robin, 29; bluebird, 15; golden-crowned kinglet, 1; starling, 150; English sparrow, 500 (est.); cardinal, 200 (est.); goldfinch, 20; slatecolored junco, 800 (est.); tree sparrow, 1000 (est.). Total, 38 species; about 5113 individuals. -Mrs. Cora W. Hutchinson, O. C. K. Hutchinson, Charles Laun.

200. Michael (Calhoun Co.), Ill. (7½-mile radius from Michael, including site of Trail Rangers of America, the portion of Missouri covered by this circle, and the east bank of Illinois River near Hardin and opposite Michael). — Dec. 29. Overcast, followed by rain and sleet; wind NE, 5 m.p.h.; 4-in. snow; temp. 33° to 42° to 40°. Twenty-five observers in 2 groups. Total hours, 16; total miles, 80 (65

by car, 15 on foot). Mallard, 4; Am. merganser. 33; red-tailed hawk, 7; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 3; sparrow hawk, 4; bob-white, 12; killdeer, 4; Wilson's snipe, 3; herring gull, 1; ring-billed gull, 32; rock dove, 8; mourning dove, 12; great horned owl, 1; barred owl, 1; belted kingfisher, 3; flicker, 6; pileated woodpecker, 6; red-bellied woodpecker, 18; red-headed woodpecker, 7; hairy woodpecker, 4; downy woodpecker, 21; blue jay, 63; crow, 82; black-capped chickadee, 58; tufted titmouse, 48; white-breasted nuthatch, 1; brown creeper, 1; Carolina wren, 8; long-billed marsh wren (?), 1; robin, 8; bluebird, 15; goldencrowned kinglet, 1; cedar waxwing, 10; starling, 4; English sparrow, 150; European tree sparrow, 1; meadowlark, 3; rusty blackbird, 4; grackle, 1; cardinal, 91; purple finch, 7; goldfinch, 35; slate-colored junco, 173; tree sparrow, 109; song sparrow, 19. Total, 47 species; about 1086 individuals.-Rev. George M. Link, Cecelia and Al Kaszynski, Marie Stelbrink, Marjorie Stelbrink, Mr. and Mrs. Leo Myer, Beatrice. Ann, and Neil Waterbury, Jack Buese, Lorin Roth, Frances Woltmann, David Roth, Eugene Roth, Wesley Johnson, Donald Knight, Gary Hagen, Robert McMullen, Gilbert Knight, Francis Miller, Elmer Smith, Bobby Miller, Joseph H. Myer, Billy Manes (Trail Rangers of America, Pere Marquette Nature League).

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201. Moline, Ill. (along Rock River shore below Davis power plant, around the island, to Black Hawk State Park, through woodland over park trails and return; mature deciduous woodlands 50%, cattail marsh 5%, pastures 15%, river shore 30%).-Dec. 26. Fair; temp. 19° to 20° F.; wind NW, 19-24 m.p.h. at start, W, 1-7 m.p.h. at return; ground covered with 6-in. crusted snow; tree branches ice-coated; all water except parts of Rock River frozen. Seven observers together. Total hours, 8 (on foot); total miles, 7 (on foot). Mallard, 2; bald eagle, 5 (3 ad., 2 imm.); bob-white, 9; herring gull, 16; barred owl, 1; belted kingfisher, 1; red-headed woodpecker, 1; downy woodpecker, 3; blue jay, 4; crow, 2; black-capped chickadee, 14; tufted titmouse, 2; white-breasted nuthatch, 1; robin, 2; starling, 1; English sparrow, 92; cardinal, 3; junco, 11; tree sparrow, 18. Total, 19 species; 188 individuals.-Reinhardt Bodenbender, Robert Carlson, Jack Staes, Bailey Knorr, Joan Ellis, Dick Ellis, Margaret E. Engstrom.

202. Morrison (Whiteside Co.), Ill. (northwestern part of county; timbered pasture 60%, open farmland 40%).—Dec. 27; 9 a.m. to 5 p.m. Partly cloudy; wind S, less than 1 m.p.h.; 7-in. snow; temp. 10° to 20° F. Total hours, 7; total miles, 6 (on foot). Red-tailed hawk, 1; bobwhite, 14; mourning dove, 4; screech owl, 2; great horned owl, 1; red-bellied woodpecker, 1; hairy woodpecker, 1; blue jay, 3; crow, 2; black-capped chickadee, 8; white-breasted nuthatch,

3; starling, 5; English sparrow, 50; cardinal, 3; goldfinch, 16; slate-colored junco, 4; tree sparrow, 9; Lapland longspur, 25 (seen at close range). Total, 18 species; 152 individuals.— John C. Aggen.

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203. Park Ridge (Cook Co.), Ill.-Dec. 26; 6:30 a.m. to 1:30 p.m. Overcast, with light snow flurries; temp. 28° at start, 32° at return; wind 15-4 m.p.h.; 6-in. crusted snow. Three observers, together about half the time. Total miles, 18 (5 by car, 13 on foot). Cooper's hawk, 1; redtailed hawk, 1; red-shouldered hawk, 2; ringnecked pheasant, 16; herring gull, 16; hairy woodpecker, 5; downy woodpecker, 8; prairie horned lark, 1; blue jay, 1; crow, 60; blackcapped chickadee, 26; tufted titmouse, 2; whitebreasted nuthatch, 2; brown creeper, 5; shrike, 1; starling, 7; English sparrow, 25; cardinal, 33; common redpoll, 5; goldfinch, 5; slate-colored junco, 18; tree sparrow, 35; Lapland longspur, 1. Total, 23 species; 276 individuals .-Donald P. Duncan, Robert Coppin, Aulden D. Coble.

204. Springfield, Ill. (same area as in past 12 years; 71/2-mile radius centering in Springfield, and including Lake Springfield; river woods 50%, lake shore 10%, city parks and cemetery 20%, farmland 20%).—Dec. 26; dawn to dusk. Clear; temp. 22° to 29°; wind W, 13-20 m.p.h.; 5-6-in, snow on ground with a 1-in, crust; walking very difficult; lake and ponds frozen except for a few open holes. Twelve observers in 6 parties. Total hours, 43; total miles afoot, 451/2. Mallard, 2200; black duck, 125; pintail, 2; Am. merganser, 46; Am. rough-legged hawk, 1; redtailed hawk, 1; red-shouldered hawk, 2; sparrow hawk, 2; bob-white, 62 (6 coveys-1 of 31 birds); herring gull, 6; ring-billed gull, 38; mourning dove, 3; rock dove, 10; screech owl, 1; barred owl, 1; belted kingfisher, 1; flicker, 10; red-bellied woodpecker, 14; red-headed woodpecker, 10; hairy woodpecker, 12; downy woodpecker, 28; prairie horned lark, 16; blue jay, 58; crow, 390; black-capped chickadee, 49; tufted titmouse, 30; white-breasted nuthatch, 8; brown creeper, 3; Carolina wren, 1; goldencrowned kinglet, 1; starling, 1588; English sparrow, 1003; red-wing, 4; bronzed grackle, 2; cardinal, 40; evening grosbeak, 2; goldfinch, 62; towhee, 1; junco, 223; tree sparrow, 102; song sparrow, 9. Total, 41 species; 6167 individuals. -N. E. Nilsson, Mr. and Mrs. Herman Eifert, Mrs. Lena Hardbarger, Lois Hardbarger, Wm. V. O'Brien, Wm. Butler, James Moffit, Elnor Butler, Norman Castleman, Lois Hopwood, Mrs. Guy Bonney (Springfield Nature League).

205. Appleton, Wis. (river banks 50%, lake fronts and hardwoods 25%, open fields 10%, ravine and cemetery 10%, city park and streets 5%).—Dec. 27; 7:30 a.m. to 4:30 p.m. Clear; 8-10-in. fresh snow, covering of ice and heavy frost on vegetation along most of the river fronts and lake shore, very little open water;

wind SE, 1-2 m.p.h.; temp. 2° at start, 12° at return. Four observers together in a.m., 2 separately in p.m. Total hours afield, 8 (5 on foot, 3 by car); total miles, 55 (5 on foot, 50 by car). Black duck, 65; Am. golden-eye, 155; Am. merganser, 3; ring-necked pheasant, 1; herring gull, 6; downy woodpecker, 3; crow, 1; black-capped chickadee, 7; white-breasted nuthatch, 6; starling, 16; English sparrow, 150; evening grosbeak, 2; goldfinch, 6; junco, 8; white-throated sparrow, 1 (seen at distance of 2 ft., first observed at feeding station on Christmas day—Mrs. W.E.R.). Total, 15 species; 430 individuals.—Mrs. Walter E. Rogers, Mrs. H. L. Playman, Ben Seaborn, Alice Engle.

206. Green Bay, Wis. (city parks, cemeteries, streets, and surrounding country; 10% city, 5% marsh, 40% high woodland, 30% swamp woodland, 15% fields).-Dec. 30; 8 a.m. to 12 m., 1:30 to 4:30 p.m. Cloudy, light snowfall most of day; 8-in. snow on ground; temp. 28° to 30°; gentle to moderate wind, N. Seven observers in 4 parties. Total hours, 28; total miles, 28. Ruffed grouse, 1; ring-necked pheasant, 15 (12 cocks); herring gull, 24; hairy woodpecker, 3; downy woodpecker, 3; blue jay, 32; crow, 1; black-capped chickadee, 24; white-breasted nuthatch, 2; starling, 186; English sparrow, 259; evening grosbeak, 36; redpoll, 6; tree sparrow, 3; snow bunting, 500. Total, 15 species; about 1095 individuals. (After being almost entirely absent for 4 years, evening grosbeaks are very numerous this year; snowy owls also reported, but not observed on count day.)-J. B. Kendall, Jack Kendall, E. O. Paulson, Chester Krawczyk, Billy Romig, Ray Hussong, Clara Hussong (Green Bay Bird Club).

207. Horicon National Wildlife Refuge, Horicon, Wis. (east and west sides; center of area; adjacent farmland; cattail and sedge marsh 50%, deciduous farm woodlots 25%, open farmland 25%).-Dec. 28; 7:40 a.m. to 4:45 p.m. Foggy all day; temp. 18° to 25° F.; wind 13-18 m.p.h.; 8-in. snow; thick ice on water; vegetation covered with ice and hoar frost. Two observers together. Total hours, 91/4 (6 on foot, 31/4 in car); total miles, 46 (6 on foot, 40 in car). Red-tailed hawk, 1; rough-legged hawk, 3; ring-necked pheasant, 77; screech owl, 1; snowy owl, 2; downy woodpecker, 4; blue jay, 2; crow, 23; black-capped chickadee, 16; northern shrike, 1; starling, 6; English sparrow, 263; red-wing, 2; snow bunting, 24. Total, 14 species; 425 individuals. (Seen in area Dec. 27: brown creeper, 1.)-Harold A. Mathiak, S. Paul Jones.

208. Kenosha, Wis. (area 4 miles south of town; along Tobin Road east from Dublin school to Lake Michigan; north to highway Q; west to highway E-Z; south to starting point; farm roads and adjoining pastures 63%, farm woodlots 12%, lake front 20%, marshland 5%).

—Dec. 28; 7:15 a.m. to 3:15 p.m. Overcast; temp. 21° to 33° F.; wind SW, 5-15 m.p.h.;

ground covered with 3-6-in. crusted snow. Two observers together. Total hours, 8 (on foot); total miles, 12 (on foot). Am. golden-eye, 39; old-squaw, 15; Am. merganser, 350+; pheasant, 2; herring gull, 142+; short-eared owl, 4; downy woodpecker, 7; blue jay, 1; crow, 16; black-capped chickadee, 7; white-breasted nuthatch, 2; starling, 38; English sparrow, 18+; goldfinch, 5; slate-colored junco, 18; tree sparrow, 131+. Total, 16 species; about 795 individuals. Many ducks were seen too far out on the lake for identification.—Jerome Carroll, Joseph Healy.

209. Lake Geneva, Wis. (around entire lake by car; lake front 30%, cattail marsh 10%, swamps 25%, open farmland 5%, deciduous woods 30%).-Dec. 23; 7:30 a.m. to 4:30 p.m. Clear; temp. 10° at start, 18° at return; 7-in. powdery snow; wind E, 10-15 m.p.h.; few open spots in lake. Two observers together. Total miles, 33 (25 by car, 8 on foot). Common loon, 1; Canada goose, 6; mallard, 250±; black duck, 50; redhead, 1; ring-necked duck, 3; canvasback, 3; scaup, 1; golden-eye, 162; buffle-head, 2; hooded merganser, 2; Am. merganser, 17; red-tailed hawk, 3; ring-necked pheasant, 22; coot, 11; Wilson's snipe, 1 (first winter record since 1932); herring gull, 11; red-headed woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 3; blue jay, 7; crow, 31; chickadee, 16; white-breasted nuthatch, 3; northern shrike, 2; starling, 3; English sparrow, 17; rusty blackbird, 1; junco, 1; tree sparrow, 27; song sparrow, 2. Total, 31 species; about 663 individuals. -Earl Anderson, C. O. Palmquist.

210. Racine, Wis. (Taylor Ave. to Forest Park; farm woodlots 50%, open farmland 25%, fields 25%).—Dec. 27; 8 a.m. to 2 p.m. Clear; temp. 8° to 20°; wind SW, 3-5 m.p.h.; 1-4-in. crusted snow; all fresh water frozen. Two observers. Total hours, 6; total miles, 6 (on foot). Ring-necked pheasant, 5; herring gull, 1; hairy woodpecker, 1; downy woodpecker, 2; prairie horned lark, 2; blue jay, 4; crow, 25; starling, 48; English sparrow, 13; slate-colored junco, 3; tree sparrow, 4. Total, 11 species; 108 individuals. (Seen in area Dec. 26: cardinal, 1.)—George Hansen, Richard Warner.

211. Seneca, Wis. (west-central Crawford County from Seneca northwest toward Mississippi River; deciduous woodlands 60%, pasture and open farmland 10%, beaver ponds and small stream 30%).—Dec. 23. Cloudy; temp. 12° to 22°; wind E, 12-20 m.p.h.; ground covered with 5-in. snow; ponds frozen, stream partly open. Two observers together. Total hours, 7 (on foot); total miles, 12 (on foot). Red-tailed hawk, 1; pileated woodpecker, 1; red-bellied woodpecker, 4; red-headed woodpecker, 6; hairy woodpecker, 6; downy woodpecker, 6; blue jay, 14; black-capped chickadee, 27; white-breasted nuthatch, 12; starling, 32; English sparrow, 55; cardinal, 10; slate-colored

junco, 6; tree sparrow, 19. **Total,** 14 species; 199 individuals. — Clarence Paulson, Norman Larmore. 2

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212. Cedar Creek Bog (Isanti Co.), Minn, (an area 3 miles wide and 7 miles long; thickly wooded deciduous and coniferous woodland except for open areas along road).-Dec. 30: 10 a.m. to 5 p.m. Cloudy; visibility good; temp. 19°; wind NW, 2.5 m.p.h.; 16-in. snow. Twelve observers in 2 parties. Total hours, 12 (on foot). Cooper's hawk, 2; ruffed grouse, 5; pileated woodpecker, 5; hairy woodpecker, 8; crow, 21; black-capped chickadee, 18; white-breasted nuthatch, 6; blue jay, 8; redpoll, 1; goldfinch, 1; English sparrow, 19; tree sparrow, 105; Lapland longspur, 300 (est.). Total, 13 species; about 499 individuals.-Wm. H. Marshall, J. L. Cass, George Rysgaard, Mr. and Mrs. Lyman Newlin, Don Jacobs, Sam McIver, Carl Eklund. Mrs. Cora Corniea, Mrs. Ruth Young, Theodora Melone, Mrs. I. A. Lupient (Minnesota Bird Club).

213. Minneapolis, Minn. (Minnesota River valley, from Longmeadow to Bloomington Ferry; open farmland 50%, marshland and creek valleys 50%).-Dec. 29; 8 a.m. to 5 p.m. Cloudy, with snow flurries in forenoon; 14-in, snow on level; temp. 24° to 26°. Two observers together. Total miles, 30 (10 on foot, 20 by car). Mallard, 2; Am. rough-legged hawk, 2; marsh hawk, 1; ring-necked pheasant, 18; Wilson's snipe, 2; belted kingfisher, 1; red-bellied woodpecker, 2; hairy woodpecker, 4; downy woodpecker, 10; blue jay, 15; black-capped chickadee, 48; white-breasted nuthatch, 9; brown creeper, 2; starling, 1; eastern meadowlark, 1; English sparrow, 300 (est.); red-wing, 77; rusty blackbird, 1; cowbird, 2; cardinal, 7; purple finch, 2; goldfinch, 7; slate-colored junco, 10; tree sparrow, 277; song sparrow, 2. Total, 25 species; about 803 individuals.—E. D. Swedenborg, Mrs. E. D. Swedenborg.

214. St. Paul, Minn. (north end of Rice St. carline to Little Canada, to Lake Vadnais, and return; open farmland 40%, oak woods 45%, cattail marsh 10%, jack pine plantation 5%).-Dec. 30; 9 a.m. to 4 p.m. Light overcast; temp. 20° to 25° F.; wind SSW, 8-12 m.p.h.; 20-in. snow on ground. Eight observers in 2 parties. Total hours, 101/2 (on foot); total miles, 22 (on foot). Goshawk, 2; pheasant, 12; great horned owl, 1; red-headed woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 2; blue jay, 36; crow, 2; black-capped chickadee, 19; whitebreasted nuthatch, 7; red-breasted nuthatch, 1; starling, 190; English sparrow, 400; red-wing, 1; cardinal, 1; evening grosbeak, 10; purple finch, 3; redpoll, 1; goldfinch, 80; slate-colored junco, 5; tree sparrow, 6. Total, 21 species; 782 individuals. — Wm. H. Longley, Russell Hofstead, George G. Anderson, Mr. and Mrs. Ken Morrison, Mr. and Mrs. and Eileen Sather (St. Paul Bird Club).

215. St. Paul, Minn. (along the Mississippi River south of St. Paul, 15 miles) .- Dec. 30; 9:30 a.m. to 5:30 p.m. Cloudy; temp. 18°; 10-in. snow on ground; wind 0-10 m.p.h.; visibility good; river mostly open. Seven observers. Total miles, 17 (10 on foot, 7 by car); total hours, 8. Mallard, 75; black duck, 15; shoveller, 4; Am. golden-eye, 300; Am. merganser, 7; red-tailed hawk, 2; sparrow hawk, 1; ring-necked pheasant, 20; coot, 1; Wilson's snipe, 1; barred owl, 1; belted kingfisher, 1; pileated woodpecker, 2; hairy woodpecker, 2; downy woodpecker, 3; blue jay, 14; crow, 1; black-capped chickadee, 21; white-breasted nuthatch, 3; migrant shrike, 1; starling, 8; English sparrow, 200; red-wing, 2: cardinal, 10: slate-colored junco, 20; tree sparrow, 2; song sparrow, 2. Total, 27 species; 719 individuals.-Bro. Pius, R. A. Kortman, F. Ostrowski, J. Olsen, C. Larson, T. Meyers, Bro. Hubert (St. Paul Bird Club).

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216. Ames, Iowa (Iowa State College campus, along railway and adjacent woods to Agronomy Farm, woods and fields to Horticultural Farm, Brookside Park, and northwest woods to Pammel Woods and golf course; mature deciduous woods 50%, open farmland and fields 25%, campus, etc., 25%).-Dec. 30; 8 a.m. to 5 p.m. Cloudy; ground covered with 4-7-in. snow; wind NW, 15-20 m.p.h.; temp. 24°. Total hours, 9 (on foot); total miles, 14 (on foot). Goshawk, 1 (long tail, short rounded wings noted; observed in flight and at rest at close range); red-tailed hawk, 1; ring-necked pheasant, 1; rock dove, 14; screech owl, 1; barred owl, 1; flicker, 5; red-bellied woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 18; blue jay, 7; crow, 11; black-capped chickadee, 48; whitebreasted nuthatch, 16; red-breasted nuthatch, 3; brown creeper, 9; golden-crowned kinglet, 2; starling, 10; English sparrow, 128; bronzed grackle, 1 (wintering around feed lot); cardinal, 8; goldfinch, 7; slate-colored junco, 86; Oregon junco, 2 (brown back, black head, pinkish brown sides, and greater amount of white in tail noted; notes heard); tree sparrow, 15; song sparrow, 1. Total, 26 species; 400 individuals .-Wilfred Goodman.

217. Atlantic, Iowa (Atlantic cemetery, woods along Nishnabotna River, Buck Creek, Indian Creek, Lamb's Lake, Cold Springs State Park; deciduous woodland 80%, pastures 10%, pine woodland 10%).—Dec. 30; 9:30 a.m. to 5 p.m. Cloudy; temp. 20° to 30°; wind NW, 15 m.p.h.; water frozen. Thirteen observers in 4 parties. Total hours, 14 (11½ on foot, 2½ in car); total miles, 62 (40 on foot, 22 in car). Red-tailed hawk, 9; rough-legged hawk, 2; marsh hawk, 3; bob-white, 10; ring-necked pheasant, 2; mourning dove, 3; great horned owl, 2; flicker, 15; red-bellied woodpecker, 1; red-headed woodpecker, 6; hairy woodpecker, 7; downy woodpecker, 44; prairie horned lark, 68; blue jay, 6; crow, 70; black-capped chickadee, 78; tufted

titmouse, 1; white-breasted nuthatch, 32; brown creeper, 1; northern shrike, 1; starling, 27; English sparrow, 608; western meadowlark, 16; redwing, 3; cardinal, 35; goldfinch, 60; slate-colored junco, 40; tree sparrow, 200; field sparrow, 206 [no explanation given for such a large number; largely tree sparrows?—Ed.]; Harris's sparrow, 22; song sparrow, 12. Total, 31 species; 1590 individuals.—Mr. and Mrs. F. G. Mallette, Dr. and Mrs. Manney Mallette, Bob Mallette, Mr. and Mrs. Frank Berry, Charles and Joan Ruhr, Grace Barnard, Kenneth Norton, Glen Owen Jones, Charles Owen (Atlantic Bird Club).

218. Cedar Falls, Iowa (Cedar River, Beaver and Snag creeks, Josh Higgins Park; river bottoms 50%, upland forest 20%, savannahs 20%, farmland 10%).-Dec. 28; 8 a.m. to 12:15 p.m., 1:45 to 4:45 p.m. Overcast; wind W, 0-5 m.p.h.; temp. 20° to 26° F.; ground snow-covered; open patches in river. Five observers in 1 party. Total hours, 7; total miles, 32 (20 by car, 12 on foot). Red-shouldered hawk, 4; bald eagle, 1; ring-necked pheasant, 7; great horned owl, 1; barred owl, 1; red-bellied woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 10; blue jay, 6; crow, 150; black-capped chickadee, 30; tufted titmouse, 1; white-breasted nuthatch, 18; brown creeper, 1; English sparrow, 50; cardinal, 4; purple finch, 20; goldfinch, 50; slate-colored junco, 12; tree sparrow, 65. Total, 20 species; 436 individuals.-Martin L. Grant, Maybelle Brown, Mrs. Oren Paine, Mrs. Arthur Lynn, Gordon Grant (Cedar Falls Audubon Society).

219. Cedar Rapids, Iowa (Ellis Park, Cedar Lake, Mound Farm woods, Chain Lakes, and River Road).-Dec. 30; 9 a.m. to 5 p.m. Cloudy; wind NE; temp. 22° to 26°; visibility poor; deep snow; trees coated with ice. Five observers. Total miles, 35 (25 on foot, 10 by car). Ducks (unidentified), 16; red-tailed hawk, 4; rough-legged hawk, 1; sparrow hawk, 1; bobwhite, 37; ring-necked pheasant, 1; barred owl, 1; flicker, 1; red-bellied woodpecker, 2; redheaded woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 11; blue jay, 15; crow, 33; black-capped chickadee, 23; tufted titmouse, 2; white-breasted nuthatch, 10; starling, 20; English sparrow, 153; cardinal, 14; goldfinch, 1; slate-colored junco, 43; tree sparrow, 50; song sparrow, 2. Total, 24 species; 444 individuals .-Dorothy B. Hayek, Lillian Serbousek, Robert Vane, Mrs. Robert Vane, Myra Willis.

220. Davenport, Iowa (Duck Creek Park, along creek to Devil's Glen; Credit Island and nearby shore area along Mississippi River and through field to Fairmount Cemetery).—Dec. 25; 7:40 to 10:50 a.m., 11:45 a.m. to 4 p.m. Cloudy; ground covered with 4-6-in. snow; snow falling until 1:30 p.m.; wind W; temp. 33° at start, 29° at return; creeks, ponds, and harbor frozen; river frozen except for small area at head of island. Total miles, about 121/2

(on foot). Am. golden-eye, 5; duck (sp.?), 1; red-shouldered hawk, 1; red-tailed hawk, 4; bob-white, 2; ring-billed gull, 1; flicker, 1; red-bellied woodpecker, 5; downy woodpecker, 14; blue jay, 19; crow, 14; black-capped chickadee, 19; tufted titmouse, 5; white-breasted nuthatch, 3; brown creeper, 1; robin, 1; starling, 1000; English sparrow, 268; cardinal, 17; goldfinch, 14; slate-colored junco, 32; tree sparrow, 11; song sparrow, 1. Total, 23 species; 1439 individuals.—C. F. Mueller.

221. Des Moines, Iowa (Dove and Kinglet Woods along Beaver Creek, both sides of Des Moines River from Crocker Woods to Lovington, Sycamore Park, Fisher's Lake, Morningstar, Pine Hill Cemetery, Ashworth Park, Terrace Road, and vicinity, Audubon Society Sanctuary; open woodlands, along streams, roadsides, corn fields near woodlands).-Dec. 23; 8 a.m. to 4:30 p.m. Cloudy, snowing in p.m.; 5-in. snow on ground, drifting; all streams and lakes frozen; wind SE, 15-25 m.p.h.; temp. 14° at start, 19° at return. Ten observers in 6 parties. Total hours, 39 (341/2 on foot, 41/2 by car); total party miles, 1171/2 (371/2 on foot, 80 by car). Sharp-shinned hawk, 1; red-shouldered hawk, 1; broad-winged hawk, 3 (O.McC., E.P., Mrs. W.G.D.) [no further details—Ed.]; marsh hawk, 1; bob-white, 26; ring-necked pheasant, 1; mourning dove, 9; great horned owl, 1; barred owl, 2; saw-whet owl, 1; flicker, 16; red-bellied woodpecker, 9; red-headed woodpecker, 2; hairy woodpecker, 8; downy woodpecker, 52; horned lark, 3; blue jay, 44; crow, 28; chickadee, 165; tufted titmouse, 40; whitebreasted nuthatch, 48; brown creeper, 9; winter wren, 1; golden-crowned kinglet, 1; northern shrike, 1; starling, 40; English sparrow, 554; red-wing, 3; cardinal, 277; purple finch, 149; goldfinch, 243; slate-colored junco, 362; tree sparrow, 146; Harris's sparrow, 1; song sparrow, 13. Total, 35 species; 2261 individuals. (Yellow-bellied sapsucker observed Dec. 26 and red-breasted nuthatch Dec. 27 at feeding trays by members of Des Moines Audubon Society.) -Albert C. Berkowitz, Woodward Brown, Mrs. W. G. DuMont, Olivia McCabe, Jack W. Musgrove, Elizabeth Peck, Irene M. Smith, Bruce F. Stiles, Mrs. Toni R. Wendelburg, Mrs. Harold R. Peasley.

222. Dubuque, Iowa (Linwood and Mount Calvary cemeteries, Eagle Point Park, Mississippi River sloughs in Wisconsin, Catfish Creek area from Rowan St. to Mississippi River; pine woodland 15%, deciduous woodland 35%, untilled fields 25%, river sloughs 25%).—Dec. 30; 8:30 a.m. to 12:30 p.m., 1:30 to 4:30 p.m. Overcast with light snow for 2 hours; temp. 25° to 35° F.; wind NW, 2-4 m.p.h.; ground covered with 8-in. old, crusted snow; all water frozen except below dam and swift-flowing current in creek. Nine observers in 2 parties. Total hours, 11; total miles, 19 (13 on foot, 6

by car). Am. merganser, 10; red-tailed hawk 1; great horned owl, 1; barred owl, 2; belted kingfisher, 1; pileated woodpecker, 1 (city park near residential area); red-bellied woodpecker, 6; red-headed woodpecker, 10; hairy woodpecker, 4; downy woodpecker, 11; blue jay, 44: crow, 1287; black-capped chickadee, 61; tufted titmouse, 7; white-breasted nuthatch, 7; redbreasted nuthatch, 1; brown creeper, 1; northern shrike, 2; starling, 9; English sparrow, 39; cardinal, 30; purple finch, 2; goldfinch, 21; slate-colored junco, 20; tree sparrow, 16; song sparrow, 1. Total, 26 species; 1595 individuals. (Seen in area Dec. 23: long-eared owl, 5.)— Jess Crossley, George Crossley, Mr. and Mrs. James Dockal, Ethan Hemsley, Henry Herrmann, Ed Heuser, David Reed, Ival Schuster (Dubuque Bird Club).

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223. Ledges State Park (Boone Co.), Iowa. -Dec. 31; 9 a.m. to 5 p.m. Snow flurries in a.m., clear after 10:30 a.m.; temp. 12° to 20°; windy; 6-in. snow on level, loose snow drifting on uplands. Total miles, 53 (3 on foot, 50 by car). Red-tailed hawk, 5; pheasant, 3; mourning dove, 1; barred owl, 1; flicker, 4; red-bellied woodpecker, 4; hairy woodpecker, 2; downy woodpecker, 7; prairie horned lark, 16; blue jay, 6; crow, 24; chickadee, 28; tufted titmouse, 1; white-breasted nuthatch, 4; brown creeper, 2; shrike, 1; starling, 14; English sparrow, 75; western meadowlark, 1; cardinal, 14; goldfinch, 11; vesper sparrow, 1 (observed 5 different times, finally at 25 ft.; right wing drooping but flight normal); slate-colored junco, 50; tree sparrow, 38; song sparrow, 1. Total, 25 species; 314 individuals.-Myrle L. Jones.

224. Sioux City (Woodbury Co.), Iowa (War Eagle's Monument Park Woods, confluence area of Missouri and Big Sioux rivers, Lower Riverside Woods, Riverview Park, Riverside Park, area along road at foot of loess hills facing westward and lying between Stone Park and Riverside, Stone Park, Plum Creek, Dr. Clyde R. Griffen's "The Woods," Old Highview Golf Course area, Logan Park, North Side, West Side; hilly woodland, mature deciduous timber, and pine and cedar growth 50%, river country and wooded lowland 25%, open hills 15%, town 10%).—Dec. 23; 9:30 a.m. to 5 p.m. Overcast; temp. 6° to 20°; wind SE, 25-30 m.p.h.; ground covered with 31/2-in, soft snow; light snow from 11:10 a.m. to 12:45 p.m.; all rivers open, ice crusts near shores; all creeks frozen. Thirteen observers in 8 parties. Total hours afield and point observation, 86; total miles, 44 (8 by foot, 36 by car). Am. merganser, 2; red-tailed hawk, 1; marsh hawk, 1; prairie falcon, 1; ring-necked pheasant, 2; screech owl (brown phase), 2; great horned owl, 1; belted kingfisher, 1; northern flicker, 1; red-bellied woodpecker, 1; hairy woodpecker, 14; downy woodpecker, 28; prairie horned lark, 18; blue jay, 14; crow, 27; black-capped chickadee, 111; white-breasted nuthatch, 6; red-breasted nuthatch, 4; brown creeper, 7; robin, 1; ruby-crowned kinglet, 1; English sparrow, 360; cardinal, 5; pine siskin, 6; goldfinch, 5; slate-colored junco, 136; tree sparrow, 16. Total, 27 species; 772 individuals. (Dec. 24: blue jay, 1—B.W.)—Don Bushar, Mrs. Marie Dales, J. E. Dvorak, Mrs. E. A. Emery, Ethel Hackett, Jayne Hemmingson, Jean L. Laffoon, Mr. and Mrs. H. T. Lambert, Zell C. Lee, Mrs. J. L. Schott, Bertha Wellhausen, Carl Wellhausen (members and guest Sioux City Bird Club).

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225. Rankin (St. Louis Co.), Mo. (a tract between Valley Park and Eureka 6 miles long, 4 miles wide; deciduous trees on Ozark hillsides 40%, open valleys bordering 3 spring-fed creeks 40%, farmlands 10%, evergreen groves 10%).—Dec. 23; 8:30 a.m. to 4:15 p.m. Cloudy with slight mist in morning, drizzle in late afternoon; wind 2 m.p.h.; temp. 23° to 24° F.; 4-5-in. snow on ground. Thirteen observers in 4 parties. Total hours, 8 (on foot); total miles, 7½ (on foot). Sparrow hawk, 1; killdeer, 1; flicker, 7; red-bellied woodpecker, 8; hairy woodpecker, 1; downy woodpecker, 15; blue jay, 8; crow, 28; chickadee, 22; tufted titmouse, 26; white-breasted nuthatch, 12; Carolina wren, 9; robin, 5; hermit thrush, 1 (late date-R.L.-H.); bluebird, 37; cedar waxwing, 20; starling, 1; myrtle warbler, 8; English sparrow, 3; redwing, 25; cardinal, 24; goldfinch, 27; towhee, 1; slate-colored junco, 131; tree sparrow, 14; song sparrow, 9. Total, 26 species; 444 individuals. -Arthur Christ, J. Earl Comfort, A. W. Dreyer, F. J. Erb, Hattie Ettinger, Roberta Foote, Ethelyn Foote, Susan Grummann, R. Ludlow Hill, Marshall Magner, Julian Niell, Ken Niewoehner, Richard Reichle, Jr. (Webster Groves Nature Study Society).

226. Thayer, Mo., and Mammoth Springs, Ark. (3 miles apart; great spring, Mammoth Springs Federal Fish Hatchery, Warm Fork Creek to bridge 11/2 miles northeast of Thayer, Spring River to bridge 2 miles south of Mammoth Springs; deciduous farm woodlots 30%, open farmland 30%, river-bottom woods 25%, town suburbs 5%, fish hatchery 5%, great spring 5%).—Dec. 27: dawn to dusk. Heavily overcast; intermittent light showers until noon; temp. 38° to 40° F.; wind NW, 5 m.p.h.; all water clear except parts of hatchery ponds. Two observers together. Total hours, 101/2 (9 on foot, 11/2 in car); total miles, 20 (10 on foot, 10 in car). Pied-billed grebe, 14 (seen only on Mammoth Spring and Spring River where temp, remains constant at 58° F, throughout the year); great blue heron, 2 (at hatchery and on Spring River); Am. rough-legged hawk, 1; Am. coot, 4 (at spring); killdeer, 5; Wilson's snipe, 4; mourning dove, 7; belted kingfisher, 5; flicker, 3; pileated woodpecker, 1; red-bellied woodpecker, 8; red-headed woodpecker, 11; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 4; blue jay, 14; crow,

20; Carolina chickadee, 6; tufted titmouse, 10; white-breasted nuthatch, 2; house wren, 3; Carolina wren, 9; mockingbird, 4; robin, 101; bluebird, 13; starling, 29; English sparrow, 45; cardinal, 28; purple finch, 5; goldfinch, 92; vesper sparrow, 1; slate-colored junco, 125; tree sparrow, 1; field sparrow, 1; white-crowned sparrow, 2; white-throated sparrow, 6; song sparrow, 2. Total, 37 species; 590 individuals. (Seen in area Dec. 24: towhee, 2.)—C. L. Criswell, Paul Pepmiller.

227. Webster Groves - Glendale (St. Louis Co.), Mo. (area of 41/2 miles; deciduous woodland 60%, fields and pastures 40%).-Dec. 24; 8 a.m. to 3 p.m. Cloudy and somewhat foggy; temp. 34° to 39°; wind 1-6 m.p.h.; 5-12-in. crusted snow; most of creek frozen; trees and weeds coated with 1/4 inch of ice at start. Total hours afield, 7. Cooper's hawk, 1; sparrow hawk, 1; bob-white, 79; screech owl, 1; flicker, 1; downy woodpecker, 4; hairy woodpecker, 1; red-bellied woodpecker, 11; blue jay, 54; crow, 17; Carolina chickadee, 8; tufted titmouse, 12; white-breasted nuthatch, 1; Carolina wren, 2; mockingbird, 1; bluebird, 3; starling, 7; English sparrow, 22; cardinal, 82; purple finch, 3; goldfinch, 48; tree sparrow, 49; junco, 88; song sparrow, 17. Total, 24 species; 513 individuals. -James Earl Comfort.

228. Fort Smith, Ark. (east edge of town to point 5 miles east; Van Buren, Ark., to point 8 miles southeast; deciduous woodland 50%, cultivated land 15%, roadsides 10%, pasture 10%, lake 10%, town 5%).—Dec. 28; 7:30 a.m. to 5 p.m. Heavy fog until noon, overcast in afternoon; temp. 31° to 42°; no wind; ground and vegetation wet. Total hours, 81/2 (61/2 on foot, 1 in boat, 1 in car); total miles, 42 (6 on foot, 35 by car, 1 by boat). Red-tailed hawk, 4; marsh hawk, 3; bob-white, 6; killdeer, 24; sandpiper (sp.?), 1; rock dove, 2; mourning dove, 6; kingfisher, 1; flicker, 10; red-bellied woodpecker, 5; red-headed woodpecker, 5; downy woodpecker, 3; blue jay, 38; crow, 335; Carolina chickadee, 3; tufted titmouse, 8; white-breasted nuthatch, 2; brown creeper, 2; Carolina wren, 9; mockingbird, 8; robin, 8; bluebird, 10; Am. pipit, 1; migrant shrike, 2; starling, 5; English sparrow, 2; eastern meadowlark, 15; red-wing, 154; rusty blackbird, 22; bronzed grackle, 1; cardinal, 19; purple finch, 3; goldfinch, 3; red-eyed towhee, 3; Arctic towhee, 1 (rows of white spots on back and scapulars seen distinctly); savannah sparrow, 4; slatecolored junco, 200; tree sparrow, 4; field sparrow, 5; white-crowned sparrow, 26; whitethroated sparrow, 62; fox sparrow, 6; swamp sparrow, 2; song sparrow, 48. Total, 44 species; 1081 individuals, (Seen in area Dec. 27: Cooper's hawk, 1; Krider's hawk, 1; sparrow hawk, 2; horned lark, 150 [est.].) - Earl T. Newton, Jr.

229. New Orleans, La. (Canal and Scott

Streets to Canal Boulevard, through City Park to Lake Pontchartrain, along lake to Little Woods, to Highway No. 90, out highway 3 miles, back Highway No. 90 to starting point; swamp and marsh 20%, wooded areas 10%, lake front 15%, park area 50%, cultivated land 5%). - Dec. 22. Cloudy in a.m., clearing at noon; temp. 52° to 63°; wind ESE, 5 m.p.h. Total hours, 10 (on foot and in car); total miles, 60 (10 on foot, 50 in car). Pied-billed grebe, 15; brown pelican, 2; cormorant, 2; great blue heron, 3; blue-winged teal, 2; canvasback, 2; lesser scaup, 76; sharp-shinned hawk, 2; red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 1; bob-white, 4: coot, 110; killdeer, 89; Wilson's snipe, 1; ring-billed gull, 3; laughing gull, 2; Forster's tern, 3; mourning dove, 6; belted kingfisher, 3; flicker, 8; yellow-bellied sapsucker, 2; phoebe, 2; vermilion flycatcher, 1 (3, probably same individual seen at same location on 4 occasions recently, also reported previous count); tree swallow, 35; blue jay, 15; crow, 2; fish crow, 80; tufted titmouse, 4; Carolina wren, 1; mockingbird, 47; brown thrasher, 4; robin, 15; golden-crowned kinglet, 1; ruby-crowned kinglet, 3; Am. pipit, 40; loggerhead shrike, 14; starling, 268; orange-crowned warbler, 1; myrtle warbler, 5; western palm warbler, 1; English sparrow, 18; meadowlark, 37; red-wing, 153; boat-tailed grackle, 20; grackle (Florida, purple, or bronzed), 3; cardinal, 5; goldfinch, 1; whitethroated sparrow, 1; swamp sparrow, 7. Total, 51 species and subspecies; approximately 1124 individuals.-Earle R. Greene.

230. St. Francisville, La. (south near Mississippi River to Port Hudson; pine forest east of town; lower end of Thompson Creek; east bank of False River to Grand Lake and north along Mississippi levee to St. Francisville ferry; lake shore 25%, marsh 2%, deciduous bottomland 20%, hardwood upland 30%, pine forest 8%, open fields 15%).-Dec. 30; 12:01 a.m. to 5:30 p.m. Heavy overcast with fog in morning, hard intermittent showers throughout day; wind S, 0-20 m.p.h.; temp. 40° to 74° F. Ten observers in 4 groups. Total hours in daylight, 36 (27 on foot, 7 by car, 2 by rowboat); total hours in darkness, 5 (2 on foot, 3 by car); total miles in daylight, 80 (31 on foot, 47 by car, 2 by rowboat); total miles in darkness, 22 (5 on foot, 17 by car). Red-throated loon, 1 (R.J.N., also seen by G.H.L. and J.H.R. during previous week); horned grebe, 14; pied-billed grebe, 55; white pelican, 9; double-crested cormorant, 218; great blue heron, 4; Am. bittern, 2; mallard, 27; gadwall, 7; baldpate, 5; wood duck, 8; ringnecked duck, 67; canvas-back, 800 (est.); greater scaup, 2; lesser scaup, 2000 (est.); Am. golden-eye, 3; buffle-head, 50; ruddy duck, 10,000 (est.); turkey vulture, 4; black vulture, 41; sharp-shinned hawk, 3; Cooper's hawk, 1; redtailed hawk, 5; red-shouldered hawk, 10; bald

eagle, 1; marsh hawk, 5; sparrow hawk, 7; bob-white, 27; Am. coot, 10,000 (est.); killdeer, 61; Wilson's snipe, 5; least sandpiper, 45; western sandpiper, 10; herring gull, 9; ringbilled gull, 2; Bonaparte's gull, 3; Forster's tern, 7; mourning dove, 42; rock dove, 1; barn owl, 2; screech owl, 2; great horned owl, 1; barred owl, 15; kingfisher, 14; yellow-shafted flicker, 57; pileated woodpecker, 12; red-bellied woodpecker, 35; red-headed woodpecker, 19; yellow-bellied sapsucker, 13; hairy woodpecker, 1; downy woodpecker, 14; phoebe, 21; tree swallow, 105; rough-winged swallow, 3; blue jay, 128; crow, 87; fish crow, 1; Carolina chickadee, 37; tufted titmouse, 47; red-breasted nuthatch, 4; brown creeper, 4; house wren, 13; winter wren, 2; Bewick's wren, 10; Carolina wren, 31; long-billed marsh wren, 5; shortbilled marsh wren, 26; mockingbird, 136; catbird, 1; brown thrasher, 75; robin, 423; hermit thrush, 16; bluebird, 70; blue-gray gnatcatcher, 4; golden-crowned kinglet, 27; ruby-crowned kinglet, 137; Am. pipit, 56; cedar waxwing, 44; loggerhead shrike, 40; starling, 36; white-eyed vireo, 2; blue-headed vireo, 9; orange-crowned warbler, 17; myrtle warbler, 307; pine warbler, 38; palm warbler, 3; yellow-throat, 8; English sparrow, 49; meadowlark, 74; western meadowlark, 1 (in song, J.H.R.); red-wing, 6828 (part est.); rusty blackbird, 75; Brewer's blackbird, 6; bronzed grackle, 162; cardinal, 198; purple finch, 16; Am. goldfinch, 194; red-eyed towhee, 138; savannah sparrow, 111; grasshopper sparrow, 2; Leconte's sparrow, 2; vesper sparrow, 15; Bachman's sparrow, 2; slate-colored junco, 45; chipping sparrow, 53; field sparrow, 81; white-throated sparrow, 369; fox sparrow, 27; swamp sparrow, 155; song sparrow, 17. Total, 110 species; about 34,339 individuals. (Also observed in same area during census period: common loon, black duck, shoveller, Am. pintail, ash-throated flycatcher [second state record, collected, G.H.L.], cowbird, lark sparrow [T.R.H., R.J.N.].) — F. J. Bookman, D. M. Bradburn, T. R. Howell, Mr. and Mrs. R. W. Krebs, G. H. Lowery, W. J. Lueck, O. B. Miles, R. J. Newman, J. H. Roberts. refu

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231. Bottineau, N. D. (area same as in 1943 and subsequent counts; mixed hardwoods 10%, pastures 20%, grain stubble 65%, plowed land 5%).—Dec. 30; 9 a.m. to 4:30 p.m. Overcast; light snowfall throughout day; wind SE, 5 m.p.h. at start, 10 m.p.h. at close; temp. 10° to 16° F.; 1-ft. snow; water frozen. Two observers together. Total hours, 7½ (on foot); total miles, 8 (on foot). Ring-necked pheasant, 2; great horned owl, 3; downy woodpecker, 1; Am. magpie, 2; black-capped chickadee, 3; starling, 28; English sparrow, 151; redpoll, 49. Total, 8 species; 239 individuals.—James E. Street, Thomas M. Street.

232. Des Lacs National Wildlife Refuge, Kenmare, N. D. (Kenmare, west lake shore from

refuge headquarters to point 8 miles north, and adjacent prairie; open fields 50%, wooded lake shore road and coulees 50%).-Dec. 30; 9:30 a.m. to 5 p.m. Overcast; ground covered with 1-ft. snow on the level, 3 ft. in coulees; snow flurries off and on, sleet at close of day; temp. 10° to 25°; gusty SW wind up to 15 m.p.h. Three observers in 1 party. Total hours afield, 22 (10 on foot, 12 by car); total party miles, 35 (10 by foot, 25 by car). Am. rough-legged hawk, 2; prairie chicken, 2; sharp-tailed grouse, 2; Hungarian partridge, 19; ring-necked pheasant, 139; great horned owl, 1; snowy owl, 1; downy woodpecker, 1; Am. magpie, 25; blackcapped chickadee, 7; starling, 2; English sparrow, 226; redpoll, 150; snow bunting, 75. Total, 14 species; 652 individuals. (Seen in area Dec. 15-25: short-eared owl, hairy woodpecker.)-Bartlett Foster, J. C. McKenzie, R. T. Gammell.

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233. Lower Souris National Wildlife Refuge (McHenry Co.), Upham, N. D. (refuge headquarters east across marsh, wooded riverbottom east of the Hillman Bridge; impossible to cover as much area as in past years due to blocked roads).-Dec. 27; 8:30 a.m. to 5:30 p.m. Cloudy, snowed lightly most of day; calm; temp. 0° to 12°; snow 14 inches deep on the level. One party of 2 observers. Total hours afield, 8; total miles, 32 (26 by car, 6 on snowshoes). Mallard, 2; Am. rough-legged hawk, 3; golden eagle, 4; prairie chicken, 11; sharp-tailed grouse, 26; ring-necked pheasant, 62; screech owl, 1; great horned owl, 2; snowy owl, 2; downy woodpecker, 2; magpie, 1; chickadee, 11; whitebreasted nuthatch, 3; English sparrow, 21; common redpoll, 123; tree sparrow, 2; song sparrow, 2; snow bunting, 24. Total, 18 species; 302 individuals. (Observed during census period: European partridge, short-eared owl, and hairy woodpecker.)—C. J. Henry, Roy Hiller.

234. Sand Lake National Wildlife Refuge, Columbia, S. D. (southern end of refuge north to Four-mile Grade; marsh edge 80%, agricultural land and upland 20%).-Dec. 30; 10 a.m. to 5 p.m. Clear; 5-in. snow; light wind, SW; temp. 10° to 15°; lake and marsh frozen, except for 2 artesian ponds 25 feet in diameter. Two observers together in car. Total hours afield, 7; total miles, 41 (1 on foot, 40 by car). Canada goose, 24; mallard, 2500; rough-legged hawk, 1; bald eagle, 2; prairie chicken, 12; ring-necked pheasant, 300; great horned owl, 1; snowy owl, 2 (as many as 8 or 10 have been seen on refuge in one day this winter); prairie horned lark, 2; western meadowlark, 1; tree sparrow, 15; Lapland longspur, 18. Total, 12 species; 2878 individuals.—Elmer Podoll, Jerome H. Stoudt.

235. Fort Niobrara National Wildlife Refuge, Valentine, Neb. (around refuge headquarters, along Niobrara River, and return over prairie and highway; wooded valley 50%, open prairie 50%).—Dec. 23; 8 a.m. to 4 p.m. Mostly clear but clouding in late afternoon; light covering

of snow on ground; temp. -3° at start, 6° at return; wind SE, 10 m.p.h.; some open water. Total hours afield, 8; total miles on foot, 14. Mallard, 21; Am. rough-legged hawk, 1; golden eagle, 2; bald eagle, 1; marsh hawk, 3; prairie chicken, 3; sharp-tailed grouse, 24; pheasant, 10; hairy woodpecker, 1; horned lark, 3; magpie, 17; crow, 48; chickadee, 16; white-breasted nuthatch, 1; golden-crowned kinglet, 1; English sparrow, 4; meadowlark, 1; slate-colored junco, 1; tree sparrow, 53; song sparrow, 2. Total, 20 species; 213 individuals.—Paul A. Stewart.

236. Fremont, Neb. (same area as in 1944; woodlands 70%, farmland 20%, roadsides 10%). -Dec. 23; 8 a.m. to 3 p.m. Snow beginning at 3 p.m.; wind 13-18 m.p.h.; temp. 35° to 40°; ground mostly bare. Total miles, 10 (on foot). Marsh hawk, 2; pigeon hawk, 1 (often seen in late November, into December; pair present all summer) [no further substantiating details; regarded in "Birds of Nebraska" as an uncommon migrant-Ed.]; bob-white, 25 (1 covey); mourning dove, 2; screech owl, 2; flicker, 6; redbellied woodpecker, 2; hairy woodpecker, 10; downy woodpecker, 11; blue jay, 3; crow, 200; black-capped chickadee, 45; white-breasted nuthatch, 8; red-breasted nuthatch, 2; brown creeper, 10; robin, 50; bluebird, 2; grackle, 12; golden-crowned kinglet, 8; cardinal, 15; pine siskin, 10; goldfinch, 21; slate-colored junco, 150; tree sparrow, 125; Harris's sparrow, 3. Total, 25 species; 725 individuals. Starlings more rare than any year, but often seen in flocks of 6-10 birds.-Mrs. Lily Ruegg Button.

237. Kearney, Neb. (territory northwest of town, along Platte River west from highway 44, Black's woods, Chal Cook's sandpit, 1733 Ranch, Cottonmill Lake, country club; open farmland 10%, open prairie 50%, deciduous woodland 35%, evergreen woodland 5%).-Dec. 31; 8 a.m. to 5 p.m. Clear; wind S, 8 m.p.h.; temp. 28° to 49° F.; ground with patches of snow, some drifts; water frozen. Two observers together. Total hours, 9 (6 on foot, 3 in car); total miles, 54 (10 on foot, 44 in car). Sharpshinned hawk, 1; Am. rough-legged hawk, 2; ferruginous rough-leg, 1; marsh hawk, 5; sparrow hawk, 3; ring-necked pheasant, 6; rock dove, 11; mourning dove, 1; horned owl, 1; belted kingfisher, 3; red-shafted flicker, 2; hairy woodpecker, 1; downy woodpecker, 5; horned lark, 150; Am. magpie, 12; crow, 61; black capped chickadee, 13; robin, 11; mountain bluebird, 6; golden-crowned kinglet, 6; starling, 405; English sparrow, 200 (est.); western meadowlark, 2; red-wing, 10; pine siskin, 40; goldfinch, 1; slate-colored junco, 47; tree sparrow, 71. Total, 28 species; about 1077 individuals. (Screech owl, long-eared owl, mallard, piñon jay, bob-white, cardinal, brown creeper, and red-breasted nuthatch observed on other field trips during week. Unaccountable scarcity of winter species; season, except for one snow

storm, has been mild.)—Joseph C. Hill, Warren E. Paine.

238. Omaha, Neb. (Elmwood Park, Mandan Park, Forest Lawn Cemetery, Irvington, and suburban areas; deciduous woods 75%, coniferous tree plantings 15%, open fields 10%).-Dec. 30; 9:30 a.m. to 4:30 p.m. Cloudy; temp. 22° to 28°; wind NE, 8-12 m.p.h.; ground covered with 5-in. crusted snow; creeks frozen. Four observers. Total hours, 7 (on foot and in car); total miles, 22. Mallard, 2; red-tailed hawk, 2; sparrow hawk, 5; rock dove, 5; great horned owl, 1; flicker, 6; hairy woodpecker, 4; downy woodpecker, 8; blue jay, 12; crow, 155; black-capped chickadee, 11; tufted titmouse, 2; white-breasted nuthatch, 5; brown creeper, 1; mockingbird, 1 (lone wintering individual under observation for the second year); goldencrowned kinglet, 2; starling, 24; English sparrow, 161; western meadowlark, 5; red-wing, 3; bronzed grackle, 1; cardinal, 5; goldfinch, 42; slate-colored junco, 64; Oregon junco, 1; tree sparrow, 3. Total, 26 species; about 531 individuals .- Dr. and Mrs. R. A. Moser, Mary Ferguson, William Ferguson.

239. Baldwin, Kan. (southeast to Baldwin Lake and northwest to Lone Star Lake; open farmland 15%, town suburbs 20%, deciduous farm woodlands 40%, lake shore 25%).-Dec. 27; 7:30 a.m. to 5 p.m. Cloudy in a.m., clearing in early p.m.; temp. 23° to 32°; wind S, 2 m.p.h.; ground covered with 6-in. crusted snow; all vegetation covered with heavy layer of ice; all bodies of water frozen. Eight observers. Total hours, 8; total miles, 50 (8 on foot, 42 by car). Red-tailed hawk, 12; sparrow hawk, 1; bob-white, 12; mourning dove, 9; screech owl, 1; great horned owl, 2; flicker, 11; red-bellied woodpecker, 16; red-headed woodpecker, 7; hairy woodpecker, 8; downy woodpecker, 10; horned lark, 18; blue jay, 30; crow, 32; blackcapped chickadee, 31; tufted titmouse, 20; white-breasted nuthatch, 2; red-breasted nuthatch, 1; brown creeper, 2; mockingbird, 1; robin, 7; bluebird, 14; golden-crowned kinglet, 1; cedar waxwing, 32; starling, 55; English sparrow, 213; meadowlark, 32; cardinal, 61; purple finch, 1; goldfinch, 40; Arctic towhee, 1; slate-colored junco, 92; tree sparrow, 7; Harris's sparrow, 3; song sparrow, 4. Total, 35 species; 789 individuals. (Seen in area Dec. 26: marsh hawk, 1; yellow-bellied sapsucker, 1.)-Rena Alexander, Frances Bailey, Clara Beach, Mr. and Mrs. Ivan L. Boyd, Katharine Kellev, R. F. Miller, Grace Preston (members Baldwin Bird Club).

240. Hays, Kan. (Big Creek, campus, and experiment station grounds on foot; drove to Cedar Bluffs, which was covered on foot; open farmland 50%, stream banks 25%, landscaped grounds 20%, open prairie 5%).—Dec. 23; 8:30 a.m. to 4:30 p.m. Cloudy; wind E, 8-12 m.p.h.; temp. 2° to 10°; snow in patches; Big Creek

frozen, creek at Cedar Bluffs open due to warm springs. Three observers in 1 party. Total hours, 8 (7 on foot, 1 by car); total miles, 36 (6 on foot, 30 by car). Am. rough-legged hawk, 4: hawks (unidentified), 3; golden eagle, 16 [no details furnished to explain such a large number-Ed.]; marsh hawk, 17; ring-necked pheasant, 31; great horned owl, 1; kingfisher, 1; redshafted flicker, 1; hairy woodpecker, 2; downy woodpecker, 2; horned lark, 600 (est., in flocks mixed with savannah [?] sparrows and longspurs [no individual total given-Ed.1): Am. magpie, 3; crow, 700 (est.); black-capped chickadee, 1; brown creeper, 2; Townsend's solitaire, 1; golden-crowned kinglet, 1; shrike, 1; English sparrow, 48; western meadowlark, 2; Brewer's blackbird, 50 (flock near warm springs of creek); goldfinch, 4; savannah (?) sparrow, 30 (identification not positive - W.R.E.); slatecolored junco, 40; Oregon junco, 6; tree sparrow, 5; fox sparrow, 1; song sparrow, 5. Total, 29 species; about 1578 individuals, (Cardinal seen at Big Creek on Dec. 25.)-L. D. Wooster, S. V. Dalton, W. R. Eastman, Jr.

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241. Kansas City, Kan. (Quivira Lake and Woods, Johnson County; ice-covered lake 10%, cattail marsh 10%, open farmland 10%, weedy thickets 40%, deciduous woodland 35%).-Dec. 23; 8 a.m. to 1 p.m., 3 to 5 p.m. Overcast with light freezing rain; temp. 20° to 23°; wind NE, 10-15 m.p.h.; about 8-in. old snow on ground; open water hole in lake. Two observers together. Total hours afield, 7 (on foot); total miles, 4 (on foot). Mallard, 150; black duck, 4; scaup, 3; coot, 1; red-tailed hawk, 1; Harlan's hawk, 1; bob-white, 13; kingfisher, 1; yellowshafted flicker, 1; red-shafted flicker, 1; redbellied woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 22; blue jay, 35; crow, 4; black-capped chickadee, 20; tufted titmouse, 26; bluebird, 5; golden-crowned kinglet, 3; cedar waxwing, 7; starling, 1; red-wing, 2000 (est.); cardinal, 49; goldfinch, 3; slate-colored junco, 203; Cassiar junco, 1 (3, collected, identified by A. H. Miller); Montana junco, 1 (9, collected, identified by A. H. Miller); tree sparrow, 6; song sparrow, 23. **Total**, 29 species and subspecies; about 2589 individuals. (Seen in area Dec. 29: robin, 1.)-Alfred E. Brandt, Harold C. Hedges.

242. Wichita, Kan. (Santa Fe Lake; woods along Whitewater River, Whitewater Creek, and Spring Creek; Maple Grove Cemetery; Sims Park; lake 8%, deciduous woodlots 60%, brushland 12%, river bank 10%, open farmland 10%).—Dec. 30; 6:30 a.m. to 5:30 p.m. Partly cloudy; temp. 37° to 41°; wind NW in morning, N in afternoon, 13-18 m.p.h.; scattered traces of snow; ground soft all day; Santa Fe Lake and creeks frozen, river partly open. Total hours, 11 (9½ on foot, 1½ in car); total miles, 76 (11 on foot, 65 by car). Mallard, 2201 (est.); Cooper's hawk, 1; red-tailed hawk, 1;

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marsh hawk, 10; sparrow hawk, 6; great horned owl, 2; flicker, 7; red-bellied woodpecker, 7; hairy woodpecker, 8; downy woodpecker, 16; blue jay, 2; crow, 916; chickadee, 62; tufted titmouse, 11; red-breasted nuthatch, 6; brown creeper, 7; robin, 171; golden-crowned kinglet, 11; cedar waxwing, 11; migrant (?) shrike, 1; starling, 30; English sparrow, 71; meadowlark, 10; blackbird (sp.?), 29; cardinal, 21; purple finch, 2; pine siskin, 7; goldfinch, 22; Arctic towhee, 4; slate-colored junco, 77; tree sparrow, 124; Harris's sparrow, 89; song sparrow, 2. Total, 33 species; about 3945 individuals. (Seen in area during count period: Am. rough-legged hawk, 1; pheasant, 4 [Loren Keller]; red-shafted flicker, 1; white-breasted nuthatch, 2; Townsend's solitaire, 2.)—Harry L. Hobson.

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243. Oklahoma City, Okla. (vicinity of Lake Overholser, starting below dam and working around lake through cattail marsh and lake shores 75%, deciduous woods and river banks 25%).-Dec. 28. Clear to light overcast; temp. 30° to 40°; wind SSW, 8-12 m.p.h. Total miles, 60 (48 by car, 12 on foot); total hours, 14 (2 by car, 12 on foot). Five observers in 2 parties. Great blue heron, 1; mallard, 300 (est.); redhead, 100 (est.); red-tailed hawk, 8; marsh hawk, 19; sparrow hawk, 6; coot, 9; killdeer, 3; ring-billed gull, 138; mourning dove, 30; belted kingfisher, 2; red-shafted flicker, 18; red-bellied woodpecker, 8; hairy woodpecker, 6; downy woodpecker, 6; blue jay, 17; crow, 75; blackcapped chickadee, 46; tufted titmouse, 47; brown creeper, 4; Carolina wren, 1; mockingbird, 1; robin, 139; eastern bluebird, 109; mountain bluebird, 7 (distinct blue breast observed—D.A.G.); golden-crowned kinglet, 2; cedar waxwing, 41; loggerhead shrike, 2; starling, 240; English sparrow, 139; meadowlark, 196; cardinal, 27; eastern goldfinch, 37; red-eyed towhee, 11; slate-colored junco, 371; tree sparrow, 5; Harris's sparrow, 108; song sparrow, 9. Total, 38 species; 2288 individuals. - J. Will Harmon, Harry E. Turner, Franklin Peek, Bill Steele, Dan A. Gardner.

244. Salt Plains National Wildlife Refuge, Jet, Okla. (and vicinity, consisting of 10,600-acre lake and small ponds 40%, adjacent agricultural land 20%, pastures 10%, deciduous woods 30%). -Dec. 26; dawn to dusk. Fair, clear in a.m., cloudy in p.m.; temp. 24° to 42° F.; lake and ponds frozen except for small holes. Total hours, 8; total miles, 89 (4 on foot, 85 by car). Great blue heron, 91; Canada goose, 90; mallard, 10,000 (est.); black duck, 5; gadwall, 7; baldpate, 3; pintail, 15; green-winged teal, 2; canvas-back, 2; scaup, 1; golden-eye, 20; bufflehead, 1; ruddy duck, 1; Am. merganser 3000 (est.); sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 9; Am. rough-legged hawk, 1; golden eagle, 1; bald eagle, 8; marsh hawk, 29; prairie falcon, 1; sparrow hawk, 3; bobwhite, 33; ring-necked pheasant, 7; Am. coot, 9; herring gull, 10; ring-billed gull, 200 (est.);

mourning dove, 6; screech owl, 3; great horned owl, 5; barred owl, 1; short-eared owl, 12; belted kingfisher, 2; yellow-shafted flicker, 4; red-bellied woodpecker, 6; hairy woodpecker, 1; downy woodpecker, 14; prairie horned lark, 45; crow, 200 (est.); chickadee, 24; brown creeper, 4; tufted titmouse, 7; Bewick's wren, 8; longbilled marsh wren, 10; robin, 95; eastern bluebird, 20; golden-crowned kinglet, 2; migrant shrike, 1; starling, 15; English sparrow, 10; eastern and western meadowlark, 150; red-wing, 3000 (est.); rusty blackbird, 40; cardinal, 20; purple finch, 1; goldfinch, 50; Arctic towhee, 5; slate-colored junco, 150; tree sparrow, 500 (est.); Harris's sparrow, 60; fox sparrow, 2; song sparrow, 40. Total, 64 species; about 18,064 individuals.-Seth H. Low.

[On a count covering the same area on Dec. 28 made by E. J. Greenwalt and T. L. Davis a total of 50 species and about 24,685 individuals was observed, including 7 hooded mergansers, 2 blue jays, 2 white-breasted nuthatches, and 20 cowbirds not seen by Mr. Low.—Ed.]

245. Tulsa, Okla. (Mohawk Park and adjoining farmland; same area as covered by previous bird counts; city residential area 5%, elm, hackberry, oak floodplains association 63%, cultivated fields and hay meadows 16%, lagoons, and creeks 16%).-Dec. 30; 7:30 a.m. to 5 p.m. Overcast at start, sun shone at 9:30 a.m., clear in afternoon; temp. 47° to 51° F.; wind N, 4-18 m.p.h.; smaller ponds and lagoons frozen from previous cold spell. Twenty-seven observers in 7 parties. Total hours, 25 (23 on foot, 2 in car); total miles, 57 (30 in car, 27 on foot). Great blue heron, 17; blue goose, 1 (seen at 200 yds. with 7x glasses as it flew from bank across Sequoyah Lake; white neck and gray body clearly visible—H.S.D.); mallard, 1470 (est.); black duck, 5; gadwall, 34; pintail, 2; green-winged teal, 15; redhead, 5; lesser scaup, 4; Am. golden-eye, 10; buffle-head, 1; hooded merganser, 1; Am. merganser, 1500 (est.); redtailed hawk, 14; Harlan's hawk, 2; red-shouldered hawk, 8; marsh hawk, 4; osprey, 2 (1 flew directly overhead at 200 ft.; white underparts and crooked wing flight clearly discernible; joined by another osprey at 300 yds. and both circled Sequoyah Lake in company; observed with 8x glasses - O.W.L.); sparrow hawk, 4; bob-white, 20; coot, 7; herring gull, 7; ring-billed gull, 30; great horned owl, 2; barred owl, 7; belted kingfisher, 6; flicker, 21; pileated woodpecker, 2; red-bellied woodpecker, 12; yellow-bellied sapsucker, 2; hairy woodpecker, 8; downy woodpecker, 24; blue jay, 30; crow, 156; chickadee, 134; tufted titmouse, 66; whitebreasted nuthatch, 41; brown creeper, 2; Carolina wren, 15; mockingbird, 3; robin, 143; bluebird, 41; golden-crowned kinglet, 5; rubycrowned kinglet, 2; migrant shrike, 4; starling, 373; myrtle warbler, 2; English sparrow, 96; meadowlark, 106; red-wing, 35; bronzed grackle, 36; cowbird, 7; cardinal, 55; purple finch, 2;

goldfinch, 58; savannah sparrow, 6; slate-colored junco, 232; tree sparrow, 53; field sparrow, 2; Harris's sparrow, 13; white-crowned sparrow, 25; white-throated sparrow, 4; fox sparrow, 10; swamp sparrow, 7; song sparrow, 35; longspur (sp.?), 33. Total, 66 species and subspecies; approximately 5079 individuals. Unusually cold weather in mid-December drove many ducks and some other birds southward.—Mr. and Mrs. John Galley, Mr. and Mrs. H. T. Phillips, Jane and Annabell Phillips, Edith R. Force, Howard T. Bolton, G. E. Tenney, Boyd Robinson, Mr. and Mrs. Hugh S. Davis, Mr. and Mrs. O. W. Letson, Mr. and Mrs. Emmett Lackey, Donna and Bob Lackey, Ilsa Nesbitt, Margaret Cosper, Jimmy Caldwell, Stanley Smith, Bob Coulter, B. W. Proft, Frank Morsani, David Leonard, Maurice Ellison.

246. Wichita Mountains Wildlife Refuge, Cache, Okla. (third annual count; along shore French Lake; headquarters area; Upper West Cache Creek and Kiowa Lake; southwest slope Elk Mt.; Caddo, Comanche lakes and Buffalo Springs vicinity; Burford and Quanah Parker lakes; roadsides between above points; lake shores 10%, creek bottoms 40%, blackjack oak and rocky hillside situations 15%, open prairie 35%).-Dec. 24; 7:45 a.m. to 5:45 p.m. Clear; wind S to N, 2-10 m.p.h.; temp. 27° to 57°. Total hours afield, 8; total miles, 35 (14 on foot, 21 by car). Mallard, 26; canvas-back, 12; Am. golden-eye, 4; buffle-head, 2; red-tailed hawk, 2; golden eagle, 5; bald eagle, 1; marsh hawk, 3; bob-white, 4; Rio Grande turkey, 56; mourning dove, 2; screech owl, 1; horned owl, 1; belted kingfisher, 2; yellow-shafted flicker, 2; red-shafted flicker, 13; red-bellied woodpecker, 7; red-headed woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 5; crow, 35; chickadee, 61; titmouse, 32; white-breasted nuthatch, 2; brown creeper, 1; Bewick's wren, 2; Carolina wren, 1; cañon wren, 2; mockingbird, 1; robin, 10; bluebird, 31; Townsend's solitaire, 1; cedar waxwing, 6; shrike, 2; meadowlark, 28; Brewer's blackbird, 715; cardinal, 9; goldfinch, 2; savannah sparrow, 15; rock (rufouscrowned) sparrow, 4; junco, 430; tree sparrow, 38; field sparrow, 145; Harris's sparrow, 8; song sparrow, 12; longspur, 425. Total, 46 species; 2169 individuals.-Ernest J. Greenwalt.

247. El Paso, Tex. (Mesilla National Wildlife Refuge, Randel's Pool area, and Country Club Road; Beaumont Hospital grounds; Indian Springs Canyon; mesas east and south of Ft. Bliss; Ascarate Park; along canal and lower Rio Grande levee; bosque and river 38%, artificial lake 11%, irrigated land 2%, parks 16%, desert mesa and canyon 33%).—Dec. 30; 7 a.m. to 5:30 p.m. Fair; wind N, 30 m.p.h. to WSW, 1 m.p.h.; temp. 68° to 20° F.; water open; ground bare. Thirteen observers in 5 parties. (Time of parties in field varying—½ hr.; 3½ hrs.; 6 hrs.—2 parties; 10 hrs.) Total hours,

26 (31/2 by car, 221/2 on foot); total miles, 781/3 (501/2 by car, 28 on foot). Pied-billed grebe, 5: great blue heron, 6; green heron, 1; mallard, 5; New Mexican duck, 10; gadwall, 50; baldpate, 500; pintail, 62; green-winged teal, 50; shoveller, 12; Am. merganser, 57; Cooper's hawk, 1; sharp-shinned hawk, 3; red-tailed hawk, 2; marsh hawk, 6; sparrow hawk, 5: scaled quail, 5; Gambel's quail, 64; Am. coot, 1; killdeer, 2; ring-billed gull, 2; road-runner. 5; barn owl, 1; horned owl, 1; belted kingfisher, 1; red-shafted flicker, 7; ladder-backed woodpecker, 1; ash-throated flycatcher, 1 (Burrows); black phoebe, 1; Calif. jay, 2; white-necked raven, 686; crow, 341; plain titmouse, 6; verdin, 1; cactus wren, 7; long-billed marsh wren, 5; cañon wren, 2; rock wren, 10; crissal thrasher, 1; robin, 111; hermit thrush, 4; mountain bluebird, 35; western gnatcatcher, 3; ruby-crowned kinglet, 9 (1 freshly killed); loggerhead shrike, 14; Audubon's warbler, 6; western meadowlark, 15; red-wing, 600; Brewer's blackbird, 393; pyrrhuloxia, 3; pine grosbeak, 2 (first El Paso record-Wright); English sparrow, 146; house finch, 530; Arkansas goldfinch, 16; spotted towhee, 5; cañon towhee, 4; savannah sparrow, 15; desert sparrow, 2; Oregon junco, 20; pink-sided junco, 11; red-backed junco, 1; gray-headed junco, 3; chipping sparrow, 9; Gambel's sparrow, 487; song sparrow, 4. Total, 65 species and subspecies; approximately 4376 individuals,-Major Gen. G. Ralph Meyer, Major George Burrows, Mr. and Mrs. W. W. Wimberly, Dr. and Mrs. I. M. Epstein, Mary Elizabeth Harper, Emily Barlow, Sarah Durkee, Mrs. Bee Binkley, Mrs. J. C. Wilmarth, Mrs. Marguerite K. Wright, Mrs. J. Owen Allen (El Paso Bird Study Club).

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248. Fort Worth, Tex. (roadsides and pastures adjacent to Clear Fork River south of T&P railroad, Ridglea Golf Course, Live Oak Creek at its junction with Lake Worth, Fish Hatchery near Eagle Mountain Lake, Forest Park, Botanic Garden; deciduous bottom woodland 50%, open pastureland 25%, ponds and lakes 24%, cattail marsh 1%).-Dec. 30; 8:30 a.m. to 5:45 p.m. Light clouds; temp. 43° to 64° F.; wind 7-18 m.p.h.; ground dry. Five observers in 3 parties. Total hours, 12 (3 in car, 9 on foot); total miles, 62 (46 in car, 16 on foot). Ward's heron, 1; mallard, 20; gadwall, 3; pintail, 2; wood duck, 1; canvas-back, 12; scaup, 37; turkey vulture, 15; sharp-shinned hawk, 1; red-tailed hawk, 1; marsh hawk, 7; pigeon hawk, 1; sparrow hawk, 12; bob-white, 6; coot, 10; killdeer, 63; Wilson's snipe, 53; least sandpiper, 75; western sandpiper, 1; herring gull, 15; mourning dove, 12; belted kingfisher, 5; flicker, 16; red-shafted flicker, 3; red-bellied woodpecker, 13; red-headed woodpecker, 1; yellow-bellied sapsucker, 4; hairy woodpecker, 8; downy woodpecker, 1; horned lark, 57; blue jay, 14; crow, 26; Carolina chick-adee, 42; tufted titmouse, 14; brown creeper,

5: winter wren, 2; Bewick's wren, 3; Carolina wren, 9; mockingbird, 24; brown thrasher, 1; robin, 24; eastern bluebird, 23; golden-crowned kinglet, 5; ruby-crowned kinglet, 2; Am. pipit, 15; cedar waxwing, 12; loggerhead shrike, 11; starling, 2075 (est.); myrtle warbler, 18; English sparrow, 58; meadowlark, 32; red-wing, 10,000 (est.); cowbird, 3086 (est.); cardinal, 47; purple finch, 8; goldfinch, 73; Arctic towhee. 4: savannah sparrow, 5; slate-colored junco, 234; field sparrow, 1; Harris's sparrow, 55; whitecrowned sparrow, 6; fox sparrow, 3; Lincoln's sparrow, 2; song sparrow, 5. Total, 65 species and subspecies; approximately 16,400 individuals. (Three magpies observed in area on many occasions during fall and winter but not seen on day of count.)-Mr. and Mrs. George Adams, Mrs. Robert Bowman, Mr. and Mrs. Wade Smith.

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249. Muleshoe National Wildlife Refuge. Muleshoe (Bailey Co.), Tex. (same area as in 1943 and subsequent counts; White, Goose, and Paul's lakes 75%, along immediate prairie uplands and agricultural fields including earth reservoirs and stock watering places 25%) .-Dec. 30; 9:05 a.m. to 6:20 p.m. Clear; cool; calm, ground bare; temp. 45° at start, 56° at finish. Total hours, 81/2; total miles, 28 (21 by car, 7 on foot). Canada goose, 92; snow goose, 1; mallard, 41,600 (est.); baldpate, 28,800 (est.); pintail, 49,000 (est.); red-tailed hawk, 1; ferruginous rough-leg, 4; golden eagle, 4; bald eagle, 3; marsh hawk, 14; prairie falcon, 1; scaled quail, 230; little brown crane, 1120; herring gull, 24; mourning dove, 41; barn owl, 1; great horned owl, 3; burrowing owl, 2; horned lark, 203; bluebird, 4; shrike, 3; pipit, 3; English sparrow, 52; meadowlark, 32; red-wing, 5; cowbird, 6; house finch, 4; lark bunting, 280; savannah sparrow, 3; vesper sparrow, 2; sage sparrow, 1; pink-sided junco, 23; white-crowned sparrow, 127; golden-crowned sparrow, 2; McCown's longspur, 5. Total, 35 species; 121,695 individuals.-Edward J. O'Neill.

250. Pyote (Ward Co.), Tex. (banks of irrigation canal in Pecos River Irrigation District; adjoining cultivated fields and range land on C. H. Miller ranch).-Dec. 31; 10 a.m. to 8:30 p.m. Slight breeze; temp. 41°. Two observers. Total hours, 81/2; total miles, 10 (on foot). Great blue heron, 1; pintail, 1; Harris's hawk, 1; marsh hawk, 5; scaled quail, 76; sandhill crane, 43; killdeer, 20; mourning dove, 23; horned owl, 2; kingfisher, 2; red-shafted flicker, 3; red-naped sapsucker, 1; ladder-backed woodpecker, 3; phoebe, 1; Say's phoebe, 1; verdin, 1; house wren, 1; Bewick's wren, 1; cactus wren, 2; mockingbird, 1; ruby-crowned kinglet, 1; robin, 15; Am. pipit, 31; Sprague's pipit, 1; loggerhead shrike, 7; English sparrow, 18; western meadowlark, 57; pyrrhuloxia, 37; house finch, 13; green-tailed towhee, 2; rufous-crowned sparrow, 2; desert sparrow, 1; slate-colored junco, 12; Oregon junco, 8; pink-sided junco, 5; Brewer's sparrow, 3; Gambel's sparrow, 300; song sparrow, 3. Total, 38 species and subspecies; about 705 individuals.—Sgt. Helen M. Lohmeier, Charles H. Miller.

251. San Angelo, Tex. (Lipan Springs southeastward on Edwards plateau; all range land except small weedy field by pond at springs, deciduous forest near springs 25%, mesquite savannah 25%, juniper savannah 15%, "shin" oak savannah 20%, live oak savannah 20%) .-Dec. 28; 9 a.m. to 5:30 p.m. Fair; temp. 35° to 67° F.; wind S, 2-7 m.p.h. Total hours, 81/2 (8 on foot, 1/2 in car); total miles, 211/2 (121/2 on foot, 9 in car). Pied-billed grebe, 1; pintail, 2; black vulture, 5; sharp-shinned hawk, 2; redtailed hawk, 3; pigeon hawk, 1; sparrow hawk, 1; bob-white, 10; wild turkey, 30; killdeer, 1; Wilson's snipe, 1; mourning dove, 4; roadrunner, 1; belted kingfisher, 1; northern flicker, 3; red-shafted flicker, 2; golden-fronted woodpecker, 3; downy woodpecker, 4; blue jay, 2; white-necked raven, 2; Carolina chickadee, 1; black-crested titmouse, 38; bush-tit, 2; creeper, 1; Bewick's wren, 1; mockingbird, 11; robin, 23; eastern bluebird, 6; western bluebird, 5; mountain bluebird, 6; starling, 2; vireo (sp.?), 1; myrtle warbler, 1; western meadowlark, 4; red-wing, 43; cardinal, 23; common goldfinch, 6; spotted towhee, 57; vesper sparrow, 13; slate-colored junco, 101; field sparrow, 2; whitecrowned sparrow, 23. Total, 42 species; 449 individuals.-Ben Osborn.

252. Columbia Falls, Mont. (Wininger Slough; Mengon and Fierstein ranches, woods to river; the Flat east of town, to Flathead River; bank of Flathead River to Soldiers' Home and Tway Ranch; open farmland to old bridge; Ted Rogers' farm; mixed brushy woods 35%, pastures and fields 25%, coniferous woods 15%, slough, swamp, and creek 10%, river 15%).-Dec. 27; 9 a.m. to 5:50 p.m. Cloudy; temp. 35°; moderate SW wind in a.m., none in p.m.; 12-in. snow; Wininger Slough frozen, except for a few holes; river banks frozen. Two observers together in a.m., 1 in p.m. Total hours, 6 (on foot); total miles, 61/2 (on foot). Mallard, 50; Am. golden-eye, 1; ring-necked pheasant, 56; horned owl, 1; belted kingfisher, 1; downy woodpecker, 3; Arctic three-toed woodpecker, 1; three-toed woodpecker, 1; Am. magpie, 7; black-capped chickadee, 20; red-breasted nuthatch, 1; Townsend's solitaire, 3; evening grosbeak, 1; redpoll, 1; tree sparrow, 1; song sparrow, 6; snow bunting, 400. Total, 17 species; 554 individuals. (Seen from car: European partridge, 33. Dec. 18: Oregon junco, 4; Dec. 19: pileated woodpecker, 1; Clark's nutcracker, 1; Dec. 24: Bohemian waxwing, 22; Dec. 25: pine grosbeak, 7.) - H. T. Rogers, Stanley Thoroman.

253. Fortine, Mont. (farms, river-flats, and forests in central Fortine valley, same territory

as for past 17 years; mature larch-fir-pine forest 25%, second-growth fir-larch-lodgepole woods 45%, river-bottom spruce-aspen woods 15%, fields and open hills 15%).-Dec. 29; 8:30 a.m. to 5:30 p.m. Cloudy; temp. 34° to 44°; 4-10-in. snow on ground; trees bare; streams open. Total hours, 9 (on foot); total miles, 18 (on foot). Mallard, 2; golden-eye (sp.?), 1; ruffed grouse, 6; European partridge, 6; Wilson's snipe, 3; great gray owl, 1; saw-whet owl, 1; kingfisher, 1; red-shafted flicker, 3; pileated woodpecker, 1; hairy woodpecker, 4; alpine or Alaska three-toed woodpecker, 2; Rocky Mountain jay, 2; magpie, 12; raven, 4; Clark's nutcracker, 12; black-capped chickadee, 6; mountain chickadee, 34; white-breasted nuthatch, 6; redbreasted nuthatch, 2; dipper, 4; winter wren, 1; song sparrow, 1. Total, 23 species; 115 individuals. Lack of conifer seed crop plainly reflected in count.-Winton Wevdemever.

254. Douglas, Wyo. (along North Platte River from Irvine to Orpha).-Dec. 27; 7 a.m. to 4 p.m. Overcast; 6-in. crusted snow on ground; temp. 24° at start, 38° at return; wind NW to W, slight to moderate. Three observers in 1 party. Total hours, 9; total miles, 67 (55 by auto, 12 on foot). Mallard, 153; Am. roughlegged hawk, 5; ferruginous rough-leg, 1; golden eagle, 2; marsh hawk, 1; ring-necked pheasant, 37; Wilson's snipe, 2; horned owl, 4; red-shafted flicker, 5; Batchelder's woodpecker, 4; horned lark, 110; Am. magpie, 87; black-capped chickadee, 15; robin, 13; Townsend's solitaire, 5; Bohemian waxwing, 7; English sparrow, 40; tree sparrow, 175 (est.); song sparrow, 13. Total, 19 species; 679 (est.) individuals. - Alan Hay, Don Cook, Kenneth Cook.

255. Kemmerer, Wyo. (center of town to point 4 miles upstream on Hams Fork Creek through Frontier and return, through Diamondville to point on Hams Fork 2 miles downstream and return to starting point; town streets 10%, willow-bordered creek bed flowing through sage brush desert 90%).-Jan. 1; 8:30 a.m. to 1 p.m., 3 p.m. to 5:30 p.m. Partly cloudy to fair; temp. 16° to 30°; wind 1-5 m.p.h.; 6 in. to 2 ft. crusted snow on ground; some open water in creek; elevation 7000 ft. Total hours, 7 (on foot); total miles, 10 (on foot). Two observers in 1 party. Downy woodpecker, 1; Am. magpie, 33; black-capped chickadee, 4; starling, 36; English sparrow, 28. Total, 5 species; 102 individuals. - H. J. Venus, F. W. Haecker.

256. Boulder, Colo. (center of town to point 5 miles east; counter-clockwise swing to foothills north of town; up Boulder canyon to Crisman; circuit, 15-mile diameter; open farmland 30%, farm woodland 5%, open prairie 20%, foothills 20%, coniferous mountain canyon 25%; and including 3 reservoirs).—Dec. 29; 9 a.m. to 4 p.m. Overcast, with light rain from noon on;

wind E, 10 m.p.h.; temp. 50° to 40° F.; ground bare; water open on largest reservoir. Two observers together. Total hours, 7 (4 on foot, 3 by car); total miles, 45 (5 on foot, 40 by car). Pied-billed grebe, 1; Canada goose, 175; mallard. 55,000 (lowest possible estimate-J.C.H.); goshawk, 2; pigeon hawk, 1; sparrow hawk, 2; ring-necked pheasant, 9; herring gull, 2; rock dove, 31; red-shafted flicker, 5; Lewis's woodpecker, 38; Steller's jay, 5; Am. magpie, 92; robin, 1; northwestern shrike, 1; starling, 3; English sparrow, 210; western meadowlark, 9; red-wing, 165; house finch, 1; pink-sided junco. 68. Total, 21 species; about 55,821 individuals. (Mallards on large Boulder reservoir.)-Joseph C. Hill, Warren E. Paine.

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257. Denver, Colo. (Aurora; by trolley to Golden via Clear Creek; foothills to Morrison; Marston Lake, Fort Logan, South Platte River bottoms; Daniels Park).-Dec. 27; 6 a.m. to 6 p.m. Partly cloudy; wind variable; temp. 40° to 52°. Total miles, 85 (15 on foot, 70 by car and trolley). Pied-billed grebe, 2 [very late; no details-Ed.]; Canada goose, 42; mallard, 5000 (est.); gadwall, 12; baldpate, 200 (count and est.); pintail, 200 (count and est.); green-winged teal, 18; cinnamon teal, 5 [very late; no details -Ed.]; redhead, 3; ring-necked duck, 3 [apparently no previous winter record; no details -Ed.]; canvas-back, 4 [apparently no previous winter record; no details-Ed.]; lesser scaup, 2; Am. golden-eye, 6; buffle-head, 2; whitewinged scoter, 2 [ordinarily a rare migrant; no details-Ed.]; Am. merganser, 3; goshawk, 1; Cooper's hawk, 1; red-tailed hawk, 2; Am. rough-legged hawk, 3; golden eagle, 1; marsh hawk, 3; prairie falcon, 1; sparrow hawk, 2; ring-necked pheasant, 12; killdeer, 2; herring gull, 1; ring-billed gull, 3; Franklin's gull, 2 [apparently no previous winter record; no details-Ed.]; Bonaparte's gull, 1 [very late; no details—Ed.]; total gulls, 105; barn owl, 1; horned owl, 1; long-eared owl, 2; short-eared owl, 1; red-shafted flicker, 2; total flickers, 8; hairy woodpecker, 2; downy woodpecker, 4; horned lark, 500 (est.); Steller's jay, 18; Calif. jay, 6; Am. magpie, 171; piñon jay, 2; mountain chickadee, 21; black-capped chickadee, 8; whitebreasted nuthatch, 3; brown creeper, 5; dipper, 3; cañon wren, 5; robin, 31; (?) bluebird, 2; Townsend's solitaire, 12; golden-crowned kinglet, 5; starling, 15; English sparrow, 500 (est.); western meadowlark, 10; red-wing, 20,000 (est. by several methods); Brewer's blackbird, 200 (est.); house finch, 35; gray-crowned rosy finch, 1 (seen through 8x glasses at 50 ft. in direct sunlight); common goldfinch, 12; slate-colored junco, 8; Oregon junco, 2; pink-sided junco, 3; gray-headed junco, 3; total juncos, 160; tree sparrow, 21; Gambel's sparrow, 10; song sparrow, 19; Alaska longspur, 2. Total, 68 species; about 27,439 individuals. (Dec. 31: Lewis's woodpecker, bald eagle.)-S/Sgt. A. H. Claugus.

258. Grand Junction, Colo. (2 miles north to Fruita, and 5 miles northwest; town suburbs 5%, cattail marsh 5%, pastures 20%, brush and wasteland 20%, farms 50%).-Dec. 30; 9 a.m. to dusk. Cloudy and hazy; no wind; some snow on ground. Four observers in 1 party. Total hours, 9; total miles, 40 (very little distance covered on foot because of mud). Canada goose, 10; mallard, 1; marsh hawk, 5; red-shafted flicker, 3; Lewis's woodpecker, 1; phoebe, 1 (seen by all observers; occurs every winter) faccording to Bergtold, this eastern species extends to the Kansas line and perhaps only 2 birds were recorded in state up to 1928—Ed.]; Am. magpie, 17; Am. raven, 11; Bewick's wren, 1 (daily at feeding table); robin, 1; mountain bluebird, 230; shrike, 6; starling, 26; English sparrow, 225; western meadowlark, 185; redwing, 4500; Brewer's blackbird, 12; house finch, 12; goldfinch, 50; Oregon and gray-headed junco, 110; chipping sparrow, 2 (Mr. and Mrs. F.S.C.) [no further details given-Ed.]; Gambel's sparrow, 80; song sparrow, 30. Total, 24 species; 5519 individuals. The geese, the only ones we have observed in 38 years' residence here, lit in an open field near a feeding ground. -Mr. and Mrs. F. S. Carman, Mr. and Mrs. A. W. Meens.

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259. Reserve (Catron Co.), N. M. (and vicinity, willow thickets along stream, rocky canyon, and juniper-piñon hillsides; river valley 50%, canyon 20%, hills 25%, village 5%).-Dec. 30; 8 a.m. to 5 p.m. Clear; wind SW, 1-7 m.p.h.; temp. 32° to 52°. Total hours, 7 (4 on foot, 3 on horseback); total miles, 10 (5 on foot, 5 on horseback). Cooper's hawk, 1; red-tailed hawk, 1; golden eagle, 1; sparrow hawk, 1; Gambel's quail, 3; belted kingfisher, 1; redshafted flicker, 2; red-naped sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 2; Steller's jay, 1; Calif. jay, 3; Arizona jay, 7; piñon jay, 78; crow, 4; mountain chickadee, 1; whitebreasted nuthatch, 1; cañon wren, 1; mountain bluebird, 1; ruby-crowned kinglet, 1; red-wing, 53; English sparrow, 7; house finch, 6; pine siskin, 47; pale goldfinch, 97; spotted towhee, 1; cañon towhee, 1; Oregon junco, 3000 (est.); pink-sided junco, 150; white-crowned sparrow, 25; song sparrow, 53. Total, 31 species and subspecies; about 3553 individuals.-Mary Orr.

260. Deer Flat National Wildlife Refuge, Nampa, Idaho (on and along shores of Lake Lowell, marsh edge, willow, Russian olive, and Siberian pea thickets, cereal grain food patches, standing sweet clover, and adjoining agricultural fields).—Dec. 30; 8:30 a.m. to 5 p.m. Cloudy; ground bare; wind SE, moderate; temp. 29° at start, 42° at return. Two observers. Total miles 45 (37 by car, 8 by foot); total hours, 8½. Great blue heron, 3; Canada goose, 937; white-fronted goose, 5; snow goose, 7; mallard, 675,000 (est.); baldpate, 8500 (est.); pintail, 2500 (est.); goshawk, 1; red-tailed hawk, 1;

buteo (sp.?), 3; golden eagle, 14; marsh hawk, 8; prairie falcon, 1; sparrow hawk, 4; Hungarian partridge, 22; bob-white, 43; ring-necked pheasant, 211; Calif. gull, 31; short-eared owl, 3; red-shafted flicker, 14; magpie, 241; raven, 7; crow, 17; marsh wren, 5; robin, 36; shrike, 3; English sparrow, 28; meadowlark, 16; goldfinch, 57; Oregon junco, 86; white-crowned sparrow, 18. Total, 31 species; about 687,822 individuals.—Wilbert A. Rodgers, Dick Rodgers.

261. Lewiston, Idaho (afoot through park, cemetery, and along waterfronts in town, by car along Lindsay Creek and Orchards; about same area as in other years; waterfronts and creek 40%, town 25%, open farm and range 10%, orchards 25%).—Dec. 23; dawn to dusk with short time out near noon, Cloudy and foggy all day; temp. 34° to 45° F.; wind less than 1 m.p.h.; ground bare, with snow visible on hills above town; all but most rapid water frozen. Four observers in 2 groups except for early morning. Total hours, 10; total miles, 64 (8 afoot, 56 by car). Pied-billed grebe, 2; blue heron, 1; mallard, 16; baldpate, 4; Am. goldeneye, 4; Am, merganser, 7; sharp-shinned hawk, 1; sparrow hawk, 2; pheasant, 5; Wilson's snipe, 2; mourning dove, 12; red-shafted flicker, 13; magpie, 7; mountain chickadee, 2; robin, 15; golden-crowned kinglet, 2; Audubon's warbler, 1; English sparrow, 968±; western meadowlark, 4; house finch, 32; Shufeldt's junco, 28; Gambel's sparrow, 37; song sparrow, 44. Total, 23 species; about 1209 individuals. (A mountain bluebird seen several miles outside area.)-Mr. and Mrs. F. C. Gillett, Mrs. U. S. Miller, Lorena Miller,

262. Moscow Mts., Idaho (same area as in 1944-from Gnat Creek, Sec. 24. T40N, R5W to top of ridge and then west to U.S. 95, Sec. 18, T40N, R5W; 3000-4500 ft. altitude; pine, fir, and larch 100%).-Dec. 27; 8 a.m. to 3:35 p.m. Cloudy, ceiling 6000 ft., visibility 35 miles; temp. 25° to 35°; barometer 29.90 (sea level), falling; 3-in. snow at 3000, 36-in. at 4500 ft.; wind SW, 15 m.p.h. Total hours, 7.58; total miles, 12 (all afoot). Goshawk, 1; Am. roughlegged hawk, 2; blue grouse, 3; ruffed grouse, pileated woodpecker, 2; hairy woodpecker,
 white-headed woodpecker, 1; black-capped chickadee, 18; mountain chickadee, 40; chestnutbacked chickadee, 6; white-breasted nuthatch, 4; red-breasted nuthatch, 38; pygmy nuthatch, 4; brown creeper, '4; winter wren, 1; goldencrowned kinglet, 17; pine grosbeak, 8; red crossbill, 39. Total, 18 species; 192 individuals. Found in the lowlands (2500 ft.) but not on the census: red-shafted flicker, downy woodpecker, Am. magpie, robin, varied thrush, Bohemian waxwing, evening grosbeak, house finch, spotted towhee, Oregon junco, song sparrow.-Leonard Wing.

263. Bear River Migratory Bird Refuge Brigham, Utah (same area as in 1939 and subsequent counts; from refuge headquarters west along canal road, south and east over dikes to Perry, north following highway along foothills to Brigham, west through fields and over salt flats, touching points along Bear River, and back to refuge headquarters).-Dec. 28; 9 a.m. to 5 p.m. Cloudy; rain most of the day; ground bare; S wind, 120-mile movement in 24-hour period to 5 p.m.; temp. 35° at start, 42° at return. Three observers in 1 party. Total hours afield, 8; total miles, 40 (38 by car, 2 on foot). Piedbilled grebe, 19; great blue heron, 9; whistling swan, 24; Canada goose, 13; mallard, 160; gadwall, 5; baldpate, 1; pintail, 118; green-winged teal, 101; shoveller, 40; Am. golden-eye, 12; buffle-head, 25; ruddy duck, 1; Am. merganser, 43; red-breasted merganser, 3; Am. roughlegged hawk, 2; golden eagle, 12; bald eagle, 4; marsh hawk, 5; duck hawk, 1; ring-necked pheasant, 9; Am. coot, 11; Wilson's snipe, 1; ring-billed gull, 55; Bonaparte's gull, 3; herring gull, 7; short-eared owl, 2; horned lark, 150; Am. magpie, 15; Am. raven, 33; w. marsh wren, 7; loggerhead shrike, 3; English sparrow, 106; western meadowlark, 6; thick-billed red-wing, 58; goldfinch, 2; savannah sparrow, 2; tree sparrow, 1; white-crowned sparrow, 17; song sparrow, 5; snow bunting, 2. Total, 42 species; 1093 individuals.—Vanez T. Wilson, Leo Young, John B. Van den Akker.

264. Ogden, Utah (Hooper Waterfowl Run, Weber River from 33rd St. to Uintah, Upper Burch Creek; marsh 15%, river and stream bottoms 35%, grasslands 30%, scrub oak groves 20%).-Dec. 30; 9 a.m. to 5:30 p.m. Clear; no wind; temp. 38° at start, 35° at return; ground bare. Total miles, 48 (32 by car, 16 on foot); total hours afield, 81/2 (2 by car, 61/2 on foot). Am. merganser, 1; red-tailed hawk, 3; sparrow hawk, 1; Calif. quail, 18; ring-necked pheasant. 8; ring-billed gull, 2; long-eared owl, 1; belted kingfisher, 2; red-shafted flicker, 12; Lewis's woodpecker, 2; downy woodpecker, 1; horned lark, 3; Calif. jay, 4; magpie, 109; raven, 6; black-capped chickadee, 17; robin, 8; Townsend's solitaire, 1; Am. pipit, 26; English sparrow, 200+; meadowlark, 1; red-wing, 16; pine siskin, 3; goldfinch, 23; spotted towhee, 2; Oregon junco, 70+; Gambel's sparrow, 7; song sparrow, 11. Total, 28 species; about 558 individuals.-Paul Newey.

265. Salt Lake City, Utah (within a radius of 7½ miles of the City and County Bldg.; canyons and benchlands 40%, water courses and open country 40%, city parks and suburban areas 20%).—Dec. 24; 7:30 a.m. to 5:30 p.m. Misty with poor visibility at start, good after 10 a.m.; ground bare and muddy from early morning rain; temp. 40° at start. Eighteen observers in 7 parties. Total miles, 96 (30 by car. 66 on foot); total party hours, 56. Pied-billed grebe, 5; great blue heron, 2; black-crowned night heron, 4; mallard, 22; baldpate, 10; pintail,

18; green-winged teal, 6; lesser scaup, 2; Am. golden-eye, 1; Am. merganser, 2; red-breasted merganser, 3; goshawk, 1; Cooper's hawk, 1; buteo (sp.?), 1; sharp-shinned hawk, 6; redtailed hawk, 4; Am. rough-legged hawk, 3; golden eagle, 5; marsh hawk, 14; duck hawk, 1; sparrow hawk, 5; ruffed grouse, 3; Calif. quail. 741; ring-necked pheasant, 30; Virginia rail, 5: coot, 5; killdeer, 58; Wilson's snipe, 10; lesser yellow-legs, 1 (details carefully noted at close range-Evans, Neilsen); Calif. gull, 4; ringbilled gull, 1160; horned owl, 2; long-eared owl. 1; short-eared owl, 4; kingfisher, 2; flicker, 228; Lewis's woodpecker, 3; red-naped sapsucker, 1; downy woodpecker, 3; horned lark, 68; Steller's jay, 16; Calif. jay, 8; magpie, 123; raven, 4; mountain chickadee, 2; black-capped chickadee, 74; lead-colored bush-tit, 2 (Taylor); creeper, 2; water-ouzel, 4; marsh wren, 20; robin, 440; solitaire, 3; golden-crowned kinglet, 9; Am. pipit, 12; Bohemian waxwing, 35; cedar waxwing, 50; northern shrike, 1; starling, 5; English sparrow, 1938; meadowlark, 97; red-wing, 210; Brewer's blackbird, 2679; house finch, 791; siskin, 272; willow goldfinch, 61; spotted towhee. 115; slate-colored junco, 1; Montana junco, 513; pink-sided junco, 2; chipping sparrow, 4 (unusual at this season — Evans, Neilsen); tree sparrow, 3; Gambel's sparrow, 78; song sparrow, 109. Total, 73 species; 10,128 individuals. -Wm. A. Bader, Gilbert Barton, Carl Bauer, M. R. Cheesman, J. Donald Daynes, Paul Daynes, Thayer Evans, Mrs. Frank Jones, Mr. and Mrs. C. W. Lockerbie, Allan Neilsen, Robert Pendleton, Gordon Taylor, Robert Selander, Rex B. Snow, Bert Webb, A. M. and Walter Woodbury.

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266. Imperial National Wildlife Refuge, Yuma, Ariz. (refuge 17 miles north of Yuma; vicinity of Imperial Dam and southeast along shores of Lake Laguna; lake, marsh, desert, and flooded brushland types).-Dec. 29; 8 a.m. to 1:30 p.m., 4 to 6 p.m. Clear; wind NW, light; temp. 52° to 73°. Two observers in 1 party. Total hours afield, 71/2; total miles, 23 (3 on foot, 20 by car). Eared grebe, 11; western grebe, 1; pied-billed grebe, 158; double-crested cormorant, 159; great blue heron, 4; Am. egret, 4; Brewster's snowy egret, 39; black-crowned night heron, 46; least bittern, 1; Canada goose, 5; lesser Canada goose, 6; mallard, 5; gadwall, 16; baldpate, 4; pintail, 60; green-winged teal, 7; shoveller, 56; redhead, 6; ring-necked duck 41; lesser scaup, 4; buffle-head, 2; ruddy duck 28; hooded merganser, 2; Am. merganser, 2; duck (sp. ?), 130; turkey vulture, 2; red-tailed hawk, 4; Harris's hawk, 4; marsh hawk, 2; sparrow hawk, 1; Gambel's quail, 45; Virginia rail, 1; sora, 1; Florida gallinule, 8; coot, 756; killdeer, 3; Wilson's snipe, 3; spotted sandpiper, 3; least sandpiper, 8; western sandpiper, 20; mourning dove, 44; road-runner, 1; horned owl 1; belted kingfisher, 5; Gila woodpecker, 1; black phoebe, 6; Say's phoebe, 3; violet-green

swallow, 50; tree swallow, 300; verdin, 5; Bewick's wren, 1; cactus wren, 1; long-billed marsh wren, 3; western gnatcatcher, 10; ruby-crowned kinglet, 2; phainopepla, 2; loggerhead shrike, 4; Audubon's warbler, 19; English sparrow, 79; western meadowlark, 2; house finch, 1; Abert's towhee, 1; Gambel's sparrow, 26; song sparrow, 1. Total, 63 species and subspecies; 2226 individuals. — Arthur F. Halloran, Frank B. McMurry.

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267. Phoenix, Ariz. (from Fowler School 7 miles west of town to Laveen, 9 miles southeast; irrigated farmland 80%, dry river bottom 20%).-Dec. 29; 9 a.m. to 5:30 p.m. Clear; high clouds; no wind; temp. 48° to 68°. Four observers together. Total miles, 18 (13 by car, 5 on foot). Duck (sp.?), 45 (1 high flock); turkey vulture, 45; Cooper's hawk, 2; red-tailed hawk, 10; marsh hawk, 5; sparrow hawk, 17; Gambel's quail, 107; killdeer, 94+; least sandpiper, 50; mourning dove, 300+; Inca dove, 21; road-runner, 15; burrowing owl, 2; red-shafted flicker, 6; Gila woodpecker, 29; black phoebe, 7; Say's phoebe, 3; vermilion flycatcher, 2; verdin, 9; cactus wren, 19; mockingbird, 4; Bendire's thrasher, 4; curve-billed thrasher, 3; crissal thrasher, 1; sage thrasher, 1; robin, 1; ruby-crowned kinglet, 8; loggerhead shrike, 15; Audubon's warbler, 500+; orange-crowned warbler, 2; English sparrow, 15; meadowlark, 30; red-wing, 3000 (est.); Brewer's blackbird, 1; cardinal, 11; house finch, 400+; green-backed goldfinch, 5; Abert's towhee, 34; Baird's sparrow, 1; chipping sparrow, 5; lark sparrow, 3; Brewer's sparrow, 1; Gambel's sparrow, 1000+; song sparrow, 4. Total, 44 species; about 5837 individuals.-L. Claire Hulbert: Doris, Harry L., and Ruth Crockett.

268. Santa Catalina Mts., Ariz. (15-mile circle on south slope centering near Sabino Canyon, altitude 2400-3000 ft.; cottonwood-willow association 35%, cultivated lands 35%, desert 15%, ponds 10%, mesquite 5%).-Dec. 23; 7:35 a.m. to 5:30 p.m. (M.S.T.). Cloudy; wind variable SE to SW, 0-15 m.p.h.; temp. 54° to 69°. Fifteen observers in 6 parties. Total party hours, 40; total miles afoot 28, by car 59. Pied-billed grebe, 1; great blue heron, 1; mallard, 1; baldpate, 4; pintail, 2; green-winged teal, 3; ringnecked duck, 2; lesser scaup, 1; sharp-shinned hawk, 6; Cooper's hawk, 2; red-tailed hawk, 12; marsh hawk, 5; prairie falcon, 3; pigeon hawk, 1; sparrow hawk, 19; Gambel's quail, 104; coot, 2; killdeer, 31; Wilson's snipe, 1; mourning dove, 24; ground dove, 3; Inca dove, 33; roadrunner, 4; horned owl, 1; white-throated swift, 16; belted kingfisher, 1; red-shafted flicker, 18; Mearns's gilded flicker, 20; Gila woodpecker, 83; red-naped sapsucker, 2; cactus woodpecker, 12; black phoebe, 15; Say's phoebe, 19; vermilion flycatcher, 9; beardless flycatcher, 1; horned lark, 50; Am. raven, 13; bridled titmouse, 4; verdin, 42; house wren, 11; Bewick's

wren, 13; cactus wren, 37; marsh wren, 3; cañon wren, 3; rock wren, 13; mockingbird, 19; Bendire's thrasher, 7; curve-billed thrasher, 47; crissal thrasher, 2; robin, 5; hermit thrush, 4; western bluebird, 11; mountain bluebird, 44; western gnatcatcher, 2; plumbeous gnatcatcher, 6 (+6 unidentified gnatcatchers); ruby-crowned kinglet, 37; Am. pipit, 142; phainopepla, 69; loggerhead shrike, 20; Hutton's vireo, 1; Cassin's vireo, 3; orange-crowned warbler, 1; Audubon's warbler, 20; black-throated gray warbler, 1; yellow-throat, 3; English sparrow, 225; western meadowlark, 18 (+352 unidentified meadowlarks); yellow-headed blackbird, 50; red-wing, 529; Brewer's blackbird, 1003; dwarf cowbird, 1; cardinal, 34; pyrrhuloxia, 15; house finch, 289; green-backed goldfinch, 24; greentailed towhee, 2; cañon towhee, 34; Abert's towhee, 18; lark bunting, 300; savannah sparrow, 1; grasshopper sparrow, 10; vesper sparrow, 15; lark sparrow, 45; desert sparrow, 24; Oregon junco, 34; pink-sided junco, 6; grayheaded junco, 20; chipping sparrow, 73; Brewer's sparrow, 49; black-chinned sparrow, 3; white-crowned sparrow, 3; Gambel's sparrow, 450; fox sparrow, 4; Lincoln's sparrow, 7; mountain song sparrow, 25; desert song sparrow, 3. Total, 96 species and subspecies; 4767 individuals. (Dec. 25-30: Calif. jay, 2.) Due to inclement weather, higher altitudes were not covered .- Anders H. Anderson, Bruce Cole, Mr. and Mrs. Hugh P. Dearing, Mr. and Mrs. William X. Foerster, Thelma Gentry, Edouard C. Jacot, George G. Jones, Mrs. Lena Marvin, Mrs. Tad Nichols, Joseph S. Seabury, Mrs. J. D. Steele, Mr. and Mrs. R. J. Thornburg (Tucson Natural History Society Bird Club).

269. Tucson, Ariz. (Santa Cruz River valley and vicinity; ponds and irrigation canals 20%, cultivated lands 15%, cottonwoods 30%, mesquite 25%, desert 10%).-Dec. 30; 6:50 a.m. to 5:50 p.m. (M.S.T.). Clear; wind SE, calm to 1-2 m.p.h.; temp. 37° to 73°. Six observers in 3 groups. Total group hours, 193/4; total miles, 92 (8 afoot, 84 by car). Am. egret, 2; black vulture, 1; sharp-shinned hawk, 5; Cooper's hawk, 3; red-tailed hawk, 9; ferruginous roughleg, 1; marsh hawk, 9; prairie falcon, 2; pigeon hawk, 3; sparrow hawk, 24; Gambel's quail, 75; killdeer, 35; least sandpiper, 2; mourning dove, 183; ground dove, 21; Inca dove, 67; roadrunner, 3; red-shafted flicker, 12; Mearns's gilded flicker, 9; Gila woodpecker, 30; rednaped sapsucker, 2; cactus woodpecker, 9; black phoebe, 13; Say's phoebe, 19; empidonax (sp. ?), 1; vermilion flycatcher, 19; horned lark, 100; Am. raven, 8; verdin, 12; white-breasted nuthatch, 1; house wren, 9; Bewick's wren, 1; cactus wren, 38; marsh wren, 1; rock wren, 3; mockingbird, 6; Bendire's thrasher, 8; curvebilled thrasher, 20; crissal thrasher, 11; sage thrasher, 2; robin, 2; hermit thrush, 1; western bluebird, 115; mountain bluebird, 452; western gnatcatcher, 5; plumbeous gnatcatcher, 2 (+ 2

unidentified gnatcatchers); ruby-crowned kinglet, 27; Am. pipit, 95; phainopepla, 4; loggerhead shrike, 27; Hutton's vireo, 1; Cassin's vireo, 1; orange-crowned warbler, 1; Audubon's warbler, 50; yellow-throat, 1; English sparrow, 251; Arizona meadowlark, 1; western meadowlark, 35 (+213 unidentified meadowlarks); yellow-headed blackbird, 47; red-wing, 881; Brewer's blackbird, 717; dwarf cowbird, 36; cardinal, 7; pyrrhuloxia, 33; house finch, 563; green-backed goldfinch, 13; Lawrence's goldfinch, 5; green-tailed towhee, 2; cañon towhee. 5; Abert's towhee, 18; lark bunting, 1033; savannah sparrow, 52; vesper sparrow, 21; lark sparrow, 45; rufous-winged sparrow, 8; Cassin's sparrow, 6; desert sparrow, 6; Oregon junco, 2; chipping sparrow, 28; Brewer's sparrow, 103; white-crowned sparrow, 4; Gambel's sparrow, 2141; Lincoln's sparrow, 3; song sparrow, 42. Total, 84 species and subspecies; 7886 individuals. (Dec. 27: great blue heron, 1; whitethroated sparrow, 1.)-Mr. and Mrs. Hugh P. Dearing, Mr. and Mrs. Wm. X Foerster, Gale W. Monson, Ivan Peters.

270. Gardnerville, Nev. (Carson Valley at elevation of 4750 feet; fields, willow thickets, open woods, banks of Carson River, and sagejuniper, and pinon-covered hilly desert terrain, within area 15 miles in diameter).-Dec. 23; 8:30 a.m. to 12 m., 1:15 p.m. to 4:45 p.m. Overcast to clearing; strong wind in p.m.; 2-in. fresh snow; temp., 34° at start, 46° high, and 40° at return. Total hours afield, 7 (61/2 by car, 1/2 by foot); total miles, 56 (54 by car, 2 by foot). Great blue heron, 1; Canada goose, 70±; mallard, 1; Am. merganser, 3; Am. roughlegged hawk, 1; ferruginous rough-leg, 1; marsh hawk, 7; sparrow hawk, 6; ring-necked pheas-ant, 2; coot, 1; killdeer, 18; great horned owl, 1; belted kingfisher, 1; downy woodpecker, 1; red-shafted flicker, 4; horned lark, 100±; magpie, 14; crow, 55; bush-tit, 25; robin, 2; mountain bluebird, 26; ruby-crowned kinglet, 2; western meadowlark, 34; Brewer's blackbird, 6240±; English sparrow, 78; Oregon junco, 60; song sparrow, 8. Total, 27 species; approximately 6762 individuals.-Daniel R. Shawe.

271. Reno, Nev. (Nevada Game Farm south and west to Galena Creek, north and west to old Verdi Road; same area as in 1942 and subsequent counts; town 10%, marsh and open water 10%, ranchland 25%, coniferous timber 5%, desert 50%).—Dec. 29; 7 a.m. to 4:30 p.m. Clear to partly cloudy; wind W, 1-30 m.p.h.; temp 20° to 40° F.; ground bare except at Galena Creek; water 50% open. Two observers together. Total hours, 9½ (3 on foot); total miles, 60 (3 on foot). Pied-billed grebe, 2; great blue heron, 2; black-crowned night heron, 1; Canada goose, 55; lesser snow goose, 2; mallard, 400; baldpate, 250; pintail, 2; green-winged teal, 7; shoveller, 4; redhead, 30; canvas-back, 40; lesser scaup, 28; ruddy duck, 4; red-tailed

hawk, 2; marsh hawk, 3; sparrow hawk, 1; ring-necked pheasant, 6; coot, 78; belted king-fisher, 1; red-shafted flicker, 8; downy wood-pecker, 1; Steller's jay, 3; Am. magpie, 6; mountain chickadee, 4; white-breasted nuthatch, 2; pygmy nuthatch, 4; long-billed marsh wren, 1; western bluebird, 15; mountain bluebird, 3; English sparrow, 120; western meadowlark, 19; Brewer's blackbird, 700; common goldfinch, 1; Oregon junco, 37; Gambel's sparrow, 17; song sparrow, 2. Total, 37 species; about 1861 individuals. A subzero cold snap the week before undoubtedly accounted for the absence of several species that were on last year's list.—Dryden Kuser, Jerome Marks.

272. Medina, Wash. (Bellevue, Newport, Yarrow Point, and Kirkland).-Dec. 30; 8 a.m. to 3:30 p.m. Mostly overcast; calm; temp. 50°. Total miles, 29 (3 on foot, 26 by car). Western grebe, 2; horned grebe, 1; pied-billed grebe, 3; double-crested cormorant, 4; great blue heron, 5; mallard, 32; canvas-back, 8; greater scaup, 1; Am. golden-eye, 8; buffle-head, 5; ruddy duck, 37; Am. merganser, 9; red-breasted merganser, 1; hooded merganser, 5; Cooper's hawk, 1; redtailed hawk, 1; sparrow hawk, 1; Calif. quail. 35; ring-necked pheasant, 6; coot, 60 (est.); killdeer, 6; Wilson's snipe, 3; glaucous-winged gull, 2000 (est.); short-billed gull, 6; band-tailed pigeon, 21 [no details furnished; regarded as a permanent resident by W.H., but virtually unreported in winter elsewhere in state-Ed.]; belted kingfisher, 1; red-shafted flicker, 9; boreal [yellow-shafted] flicker, 1 [no details furnished; Grinnell and Miller state that "many conspicuously yellow-shafted flickers are now interpreted to be ... aberrantly colored examples of Colaptes cafer collaris," Monterey red-shafted flicker-Ed.]; Steller's jay, 2; crow, 5; black-capped chickadee, 3; Bewick's wren, 3; winter wren, 5; Townsend's solitaire, 1; varied thrush, 6; robin, 50; western bluebird, 3; Sitka kinglet, 4; red-wing, 4; western meadowlark, 6; Brewer's blackbird, 40; Calif. purple finch, 8; pine siskin, 9; spotted towhee, 12; fox sparrow, 5; slate colored junco, 2; Oregon junco, 65; Puget Sound sparrow, 6; song sparrow, 30. Total, # species and subspecies; about 2541 individuals. -Walter M. Hagenstein, Peter O. Jensen,

273. Spokane, Wash. (city parks and cemeteries, and area along Spokane River).—Dec. 21; 9 a.m. to 3 p.m. Raining most of the day; temp. 32° to 36°; light NE wind; 5-in. packed snow on ground. Fifteen observers in 7 parties. Total miles, about 28 (on foot). Great blue heron, 1; mallard, 1078; Am. golden-eye, 2; sharp-shinned hawk, 1; Hungarian partridge, 3; bob-white, 6; ring-necked pheasant, 22; rock dove, 1000 (est.); mourning dove, 8; snow; owl, 1; flicker, 27; downy woodpecker, 1; pile ated woodpecker, 1; Am. magpie, 13; black-capped chickadee, 22; red-breasted nuthatch, 16; pygmy nuthatch, 108; brown creeper, 2; robin, 184; Townsend's solitaire, 1; golden

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crowned kinglet, 23; Bohemian waxwing, 215; English sparrow, 42; evening grosbeak, 6; red crossbill, 68; goldfinch, 2; junco, 16; song sparrow, 12. Total, 28 species; about 2881 individuals. (Two albino robins recently reported from different parts of the city.)—Mr. and Mrs. Wm. B. Wright, Mrs. Cora Roberts, Mrs. Marie Downs, Mrs. Glenn Ayres, Marie Coyne, Clara Mitchell, Mr. and Mrs. Archie Clough, Mattie Burke, Mrs. A. I. Buchecker, Mrs. A. J. Castle, Belle Bothwell, H. D. Thompson, Sgt. Lloyd Coffman (Spokane Bird Club).

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274. Willapa National Wildlife Refuge, Ilwaco, Wash, (same area as in 1940 and subsequent counts; around east, south, and west boundary of Willapa Refuge, tidal bays, shore line, edges of alder, spruce, hemlock woods).-Dec. 28; 8 a.m. to 5 p.m. Heavy rain; high wind; temp. 40° to 55°. Two observers together. Total hours in field, 16; total miles, 39 (9 on foot, 30 by car). Pacific loon, 2; western grebe, 7; great blue heron, 11; pintail, 6; greater scaup, 11; Am. golden-eye, 15; buffle-head, 25; whitewinged scoter, 1; surf scoter, 2; ruddy duck, 15; Am. merganser, 4; red-breasted merganser, 1; red-tailed hawk, 1; bald eagle, 1; duck hawk, 1; Wilson's snipe, 1; red-backed sandpiper, 9000; glaucous-winged gull, 36; herring gull, 38; horned owl, 1; belted kingfisher, 1; red-shafted flicker, 4; Steller's jay, 6; crow, 94; Bewick's wren, 1; varied thrush, 3; western meadowlark, 1; Oregon junco, 10; song sparrow, 5. Total, 29 species; 9304 individuals.-Maurice L. Hinshaw (F.W.S.), Erle Howell.

275. Eugene, Ore. (residential areas in Eugene and 4 nearby farms; university campus and residential area 45%, farms and orchards 40%, Douglas fir and mixed forest 10%, river frontage 5%).-Dec. 30; 9 a.m. to 5 p.m. Fog until 11 a.m., then clear; temp. 50° to 57°; wind SW, 3-6 m.p.h.; ground wet and muddy. Regular count area flooded, and practically all roads closed. Ten observers in 8 parties. Total hours, 52; total miles, 28 (16 by car, 12 on foot). Piedbilled grebe, 1; wood duck, 15; lesser scaup, 6; Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 6; ring-necked pheasant, 10; coot, 6; killdeer, 73; rock dove, 29; mourning dove, 31; horned owl, 1; belted kingfisher, 1; red-shafted flicker, 73; red-breasted sapsucker, 4; hairy woodpecker, 2; downy woodpecker, 3; Steller's jay, 4; Calif. jay, 10; crow, 8; black-capped chickadee, 66; chestnut-backed chickadee, 5; white-breasted nuthatch, 5; red-breasted nuthatch, 5; creeper, 1; winter wren, 7; Bewick's wren, 1; robin, 163; varied thrush, 18; hermit thrush, 2; western bluebird, 19; golden-crowned kinglet, 26; Sitka kinglet, 12; cedar waxwing, 11; Audubon's warbler, 1; English sparrow, 67; western meadowlark, 24; Brewer's blackbird, 458; Calif. purple finch, 18; house finch, 3; willow goldfinch, 7; spotted towhee, 27; lark sparrow, 1 (positive identification; frequented feeding station for past 3 weeks—J.H.P.); Oregon junco, 371; white-crowned sparrow, 41; golden-crowned sparrow, 34; fox sparrow, 5; song sparrow, 54. **Total**, 48 species and subspecies; 1738 individuals. (Seen in area during week: great blue heron, 1; mallard, 2; goshawk, 1; bob-white, 14; pileated woodpecker, 1.)—Helen Kilpatrick, Ada R. Shuey, Mrs. K. W. Onthank, J. Hugh Pruett, Mrs. G. S. Beardsley, Ruth Richardson, Mrs. Geo. F. Saunders, Ruth E. Hopson, Mary Ebner, Ben H. Pruitt (Natural History Society).

276. Portland, Ore. (15-mile diameter circle, centered downtown, same as in 1937 and subsequent counts; brushy lowlands 18%, fir woodlands 21%, deciduous woodlands 15%, lakes and rivers 8%, farmlands 23%, residential areas 15%).-Dec. 30. Clear; temp. 45° to 55°; wind in p.m. E, 5-10 m.p.h. Sixty-two observers in 16 parties. Total hours, 117 (92 afoot, 17 by car, 8 by bicycle); total miles, 279 (104 afoot, 135 by car. 40 by bicycle). Pacific (?) loon, 1 (L.F.S.); western grebe, 1; pied-billed grebe, 7; double-crested cormorant, 42; great blue heron, 31; Canada goose, 431; mallard, 1718; gadwall, 2; baldpate, 3864; pintail, 840; greenwinged teal, 175; shoveller, 13; ring-necked duck, 11; canvas-back, 2; lesser scaup, 256; buffle-head, 23; hooded merganser, 17; Am. merganser, 36; ducks, species undet., 1829; sharp-shinned hawk, 5; Cooper's hawk, 3; redtailed hawk, 8; sparrow hawk, 24; ruffed grouse, 3; bob-white, 7; Calif. quail, 8; ring-necked pheasant, 123; coot, 330; killdeer, 226; Wilson's snipe, 17; sandpiper (sp. ?), 25; glaucous-winged gull, 690; western gull, 1; herring gull, 24; Calif. gull, 61; ring-billed gull, 3; short-billed gull, 562; gulls, species undet., 1683; band-tailed pigeon, 32; screech owl, 3; belted kingfisher, 8: red-shafted flicker, 185; pileated woodpecker, 2; red-breasted sapsucker, 4; Harris's woodpecker, 4; Gairdner's woodpecker, 36; horned lark, 1; Steller's jay, 44; crow, 722; black-capped chickadee, 546; chestnut-backed chickadee, 16; bush-tit, 206; white-breasted nuthatch, 6; redbreasted nuthatch, 18; brown creeper, 6; winter wren, 75; Bewick's wren, 64; robin, 1109; varied thrush, 157; hermit thrush, 3; bluebird, 32; Townsend's solitaire, 4; golden-crowned kinglet, 416; ruby-crowned kinglet, 39; pipit, 288; cedar waxwing, 6; Hutton's vireo, 3; lutescent warbler, 2 [very late; Gabrielson and Jewett give early October as latest date-Ed.]; myrtle warbler, 44; Audubon's warbler, 82; Townsend's warbler, 1; English sparrow, 612; meadowlark, 43; red-wing, 473; Brewer's blackbird, 1117; evening grosbeak, 5; purple finch, 294; house finch, 121; pine siskin, 124; willow goldfinch, 532; green-backed goldfinch, 111; crossbill, 154; spotted towhee, 185; savannah sparrow, 12; slate-colored junco, 3; Oregon junco, 2175; whitecrowned sparrow, 21; golden-crowned sparrow, 97; fox sparrow, 38; song sparrow, 1332. Total, 88 species; about 24,715 individuals. (Dec. 31: An-

thony's green heron, 1; short-eared owl, 1; both permanent residents.) - Earl A. Marshall, George D. Ruby, Mella White, Norbert Leupold, Norbert Leupold, Jr., Louis Oberson, Kenneth Leatherman, Mr. and Mrs. C. L. Marshall, Mr. and Mrs. Ben F. Layman, N. F. Kelley, Alva Oakes, Clyde L. Keller, Clyde L. Keller, Jr., Waldo Ek, Frank Abraham, Mrs. F. C. Blakeslee, Mrs. Frank Bartlett, O. E. Wheeler, Mrs. Whitney Starr, Mr. and Mrs. Sargent, Mr. McKenzie, Sgt. David B. Marshall, Albert Marshall, Leo, F. Simon, J. R. Williams, Lt. Lawrence Schramm, Lotus Simon, Mrs. Johanna Simon, W. A. Eliot, Arlie Seaman, A. E. Kelham, N. G. Seaman, Mr. and Mrs. Higgins, Mrs. W. A. Eliot, Mrs. Susie Nicholson, Isabel Wildes, Joyce Wildes, Mrs. Mabel Williams, Esther Maegly, Carl Jacobsen, Mrs. Theodore Adams, Mr. and Mrs. T. H. Brown, E. M. Poole, Thornton T. Munger, Osgood Munger, Mr. and Mrs. W. H. Crowell, Le-Forest McCroskey, P. E. Lewis, J. J. Parker, Mr. and Mrs. H. C. Peterson, Mrs. L. J. Merrill, Mrs. Robt. Livingstone, Robert Livingstone, Jr., Gerald Beebe, Richard Wallman (Oregon Audubon Society).

277. Benicia (Solano Co.), Calif. (same area as in 1933 and several subsequent years; observers traveling together by car with frequent stops to canvass the marsh and live-oak hill area along highway between Benicia and Cordelia, these towns being 14 miles apart; Benicia waterfront 20%, marsh 25%, open fields 15%, hills 40%).-Dec. 30; 8 a.m. to 4:30 p.m. Clear, following 2 weeks of rain; wind E, 1-5 m.p.h.; temp. 47° to 56° F. Total hours, 16 (15 on foot, 1 by car); total miles, 46 (28 by car, 18 on foot). Western grebe, 4; great blue heron, 1; Am. egret, 12; snowy egret, 90; blackcrowned night heron, 6; Am. bittern, 1; pintail, 8; green-winged teal, 2; shoveller, 70; canvasback, 300 (est.); lesser scaup, 40; ruddy duck, 195; turkey vulture, 1; red-tailed hawk, 10; marsh hawk, 1; sparrow hawk, 28; coot, 2000 (est.); killdeer 75; greater yellow-legs, 17; glaucous-winged gull, 82; western gull, 150; Calif. gull, 18; Bonaparte's gull, 23; Anna's hummingbird, 1; red-shafted flicker, 78; black phoebe, 1; Say's phoebe, 1; Calif. jay, 42; plain titmouse, 4; bush-tit, 15; mockingbird, 1; robin, 800 (est.); hermit thrush, 7; western bluebird, 8; mountain bluebird, 69; gnatcatcher, 1; rubycrowned kinglet, 17; pipit, 16; cedar waxwing, 174; loggerhead shrike, 23; Hutton's vireo, 1; Audubon's warbler, 205; English sparrow, 75; meadowlark, 300 (est.); red-wing, 135; Brewer's blackbird, 4000 (est.); house finch, 210; willow goldfinch, 1100 (est.); green-backed goldfinch, 5; spotted towhee, 14; lark sparrow, 7; junco, 18; Nuttall's sparrow, 95; golden-crowned sparrow, 45; song sparrow, 68. Total, 55 species; about 10,670 individuals. The scarcity or absence of certain species of shore and water birds observed on previous censuses in this area was

due primarily to high flood waters from the central valleys following 2 weeks of almost incessant rains.—Emerson A. Stoner, J. Duncan Graham, heade

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278. Big Bear Lake, Calif. (parts of a 15-mile diameter circle centering 21/2 miles north of town of Big Bear Lake; altitudinal range 3550-7000 ft.; same area as in 1941 and subsequent counts; pine forest 32%, mountain lakes 16%. mountain meadow 1%, piñons 10%, desert scrub 10%, desert willows and cottonwoods 8%, alders, oaks, and canyon stream 10%. chaparral 13%).-Dec. 30; 3:45 a.m. to 6 p.m. Clear; wind variable, 0-3 m.p.h.; temp. at dawn about 30° in coldest sections, 40° to 45° in others, max, about 65°; ground mostly bare, snow on peaks above 8000 ft. and in most sheltered areas to 7000 ft.; lakes open, water level very low after mild dry fall. Thirteen observers in 3 parties. Total hours, 281/4 (afoot or with numerous short side trips from cars); total miles, approx. 38 (23 afoot, 15 by car along lake shore for waterfowl). Pied-billed grebe, 1; baldpate, 74; pintail, 1500 (est.); greenwinged teal, 1; shoveller, 2; redhead, 9; canvasback, 60; lesser scaup, 6; buffle-head, 2; ruddy duck, 19; hooded merganser, 1 (9, with Am. mergansers, carefully observed with spotting scope - A.M., D.G., Mr. and Mrs. O.M.S., C.H.D.); Am. merganser, 50; sharp-shinned hawk, 2; red-tailed hawk, 5; golden eagle, 2; prairie falcon, 1; pigeon hawk, 1; mountain quail, 14+; coot, 25,000 (est.); killdeer, 1; least sandpiper, 18; ring-billed gull, 7; band-tailed pigeon, 26; horned owl, 1+; saw-whet owl, 1 (identified by steadily repeated calls, 120 per minute when at full speed, for 45 minutes in early a.m.-H.L.C., B.D., S.G.S.); red-shafted flicker, 19; Calif. woodpecker, 11; Lewis's woodpecker, 6; red-breasted sapsucker, 4; hairy woodpecker, 10; cactus woodpecker, 6; Nuttall's woodpecker, 6; white-headed woodpecker, 6; Steller's jay, 25; Calif. jay, 34; mountain chickadee, 64; plain titmouse, 13; verdin, 1; bush-tit, 21; white-breasted nuthatch, 8; pygmy nuthatch, 73; creeper, 6; wren-tit, 13; house wren, 1 (at 5100 ft. alt., exceptionally high for winter-H.L.C., B.D.); Bewick's wren, 4; cactus wren, 4; rock wren, 1; Calif. thrasher, 3; robin, 52; hermit thrush, 2; western bluebird, 52; mountain bluebird, 10; Townsend's solitaire, 6; ruby-crowned kinglet, 21; cedar waxwing, 2; myrtle warbler, 1 (A.M.); Audubon's warbler, 3; western meadowlark, 1; Brewer's blackbird, 2; Calif. purple finch, 61; Cassin's purple finch, 20; pine siskin, 150; green-backed goldfinch, 43; Lawrence's goldfinch, 120; finches (unidentified), 160; green-tailed towhee, 1 (at 7000 ft. alt., exceptionally high for winter-A.L.B.); spotted towhee, 3; brown towhee, 1; slate-colored junco, 2; Oregon junco, 207; white-crowned sparrow, 31 (including Z. l. gambeli and at least 3 Z. l. leucophrys—A.M.); golden-crowned sparrow, 8; fox sparrow (grayheaded), 3; song sparrow, 3. Total, 73 species; 28,108 individuals (partly estimated). The unusually numerous finches were attracted by quantities of seeds in chaparral and canyon area razed by fire in July, 1945; regular chaparral birds scarce for same reason. (Seen in count area Dec. 29: eared grebe, 25; great blue heron, 1; Canada goose, 7; sparrow hawk, 1; red-wing, several; house finch, 1.)—Mrs. Marie V. Beals, Arthur L. Berry, J. H. Comby, Bill Dawson, Mrs. C. H. Daugherty, Dorothy Groner, Lt. Allen H. Morgan, Mrs. Ethel Richardson, S. Galen Smith, Mr. and Mrs. O. M. Stultz, Mr. and Mrs. H. L. Cogswell.

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279. Fresno, Calif. (same area as in 1943 and 1944; area 5 miles in diameter at Lanes Bridge on San Joaquin River, 10 miles north of Fresno in San Joaquin valley and within a few miles of the geographical center of Calif.; open plains 20%, river bottom of San Joaquin and thickets along both river banks and narrow pond 1 mile in length 80%).-Dec. 26; 7:30 a.m. to 5:45 p.m. Overcast; calm; temp. 45° to 60°; ground wet from rain of previous 3 days. Total hours, 101/4; total miles, 23 (5 on foot, 18 by car). Pied-billed grebe, 11; Am. bittern, 1; great blue heron, 3; black-crowned night heron, 3; Am. egret, 4; Canada goose, 15; wood duck, 8; redtailed hawk, 8; red-bellied hawk, 3; marsh hawk, 2; sparrow hawk, 11; valley quail, 27; Florida gallinule, 4; coot, 13; killdeer, 5; Wilson's snipe, 2; greater yellow-legs, 4; barn owl, 1; screech owl, 2; horned owl, 1; pygmy owl, 2; belted kingfisher, 6; red-shafted flicker, 31; Calif. woodpecker, 3; red-breasted sapsucker, 1; downy woodpecker, 1; Nuttall's woodpecker, 3; black phoebe, 7; Say's phoebe, 4; horned lark, 113; Calif. jay, 17; crow, 5; plain titmouse, 6; bush-tit, 72; wren-tit, 1; house wren, 9; Bewick's wren, 4; rock wren, 2; mockingbird, 4; Calif. thrasher, 1; robin, 1; hermit thrush, 3; mountain bluebird, 71; ruby-crowned kinglet, 16; Am. pipit, 36; loggerhead shrike, 2; Hutton's vireo, 1; myrtle warbler, 3; Audubon's warbler, 7; black-throated gray warbler, 1; English sparrow, 28; western meadowlark, 164; Brewer's blackbird, 63; Calif. purple finch, 2; house finch, 82; willow goldfinch, 103; greenbacked goldfinch, 33; spotted towhee, 25; brown towhee, 8; savannah sparrow, 71; lark sparrow, 93; Oregon junco, 20; Gambel's sparrow, 318; golden-crowned sparrow, 17; fox sparrow, 3; Lincoln's sparrow, 10; song sparrow, 6. Total, 67 species; 1607 individuals.-W. B. Minturn.

280. Los Angeles, Calif. (territory same as previous 8 years, taking in short stretch of seashore 10%, marsh 12%, open country 5%, golf courses 2%, canyons (oak and holly wooded) 25%, chaparral slopes 14%, river bed 3%, reservoirs 10%, campus and city parks 9%, city suburbs 10%).—Dec. 27; 6:15 a.m. to 5:45 p.m. Heavy to light to overhead fog in all sections until noon; clear, sunny to 4 p.m.; overhead fog

from then on; temp. 46° to 48°; wind W, 1-7 m.p.h.; ground wet - grass and weed growth just appearing. Twenty-six observers in 10 parties. Total hours, 75 (58 on foot, 17 by car); total miles, 152 (63 on foot, 89 by car). Pacific loon, 1; red-throated loon, 1; horned grebe, 1; eared grebe, 17; western grebe, 15; pied-billed grebe, 44; white pelican, 1; brown pelican, 60; double-crested cormorant, 76; Baird's cormorant, 2; great blue heron, 7; Am. egret, 29; snowy egret, 46; Anthony's green heron, 2; black-crowned night heron, 27; Am. bittern, 1; baldpate, 2; pintail, 158; wood duck, 1 (seen in area since Nov. 26-H.C.); green-winged teal, 15; cinnamon teal, 2; shoveller, 3; redhead, 1; ring-necked duck, 3; canvas-back, 1; lesser scaup, 485; white-winged scoter, 5; surf scoter, 309; ruddy duck, 162; red-breasted merganser. 28: sharp-shinned hawk, 2; Cooper's hawk, 5; red-tailed hawk, 9; ferruginous rough-leg, 3; marsh hawk, 5; pigeon hawk, 1; sparrow hawk, 81; valley quail, 113; Calif. clapper rail, 2; sora, 2; Florida gallinule, 2; coot, 984; snowy plover, 71; killdeer, 93; black-bellied plover, 314; surfbird, 9; ruddy turnstone, 1; black turnstone, 19; Wilson's snipe, 5; long-billed curlew, 18; Hudsonian curlew, 21; spotted sandpiper, 2; willet, 1034; greater yellow-legs, 5; least sandpiper, 409; red-backed sandpiper, 12; long-billed dowitcher, 210; western sandpiper, 75; marbled godwit, 249; sanderling, 124; avocet, 193; glaucous-winged gull, 126; western gull, 184; herring gull, 2; Calif. gull, 158; ring-billed gull, 2791; short-billed gull, 2; Bonaparte's gull, 719; Heermann's gull, 114; Forster's tern, 3; bandtailed pigeon, 105; mourning dove, 230; Chinese spotted dove, 130; ringed turtle dove, 26; roadrunner, 1; barn owl, 1; white-throated swift, 211; black-chinned hummingbird 1 (observed closely from all angles; seen campus area-D.); Anna's hummingbird, 123; belted kingfisher, 4; red-shafted flicker, 59; Calif. woodpecker, 13; red-breasted sapsucker, 2; downy woodpecker, 1; Nuttall's woodpecker, 5; Cassin's kingbird, 3; black phoebe, 88; Say's phoebe, 6; horned lark, 153; Calif. jay, 113; plain titmouse, 24; bush-tit, 395; white-breasted nuthatch, 1; wrentit, 152; house wren, 1; Bewick's wren, 19; long-billed marsh wren, 3; mockingbird, 163; Calif. thrasher, 76; robin, 2649; hermit thrush, 45; western bluebird, 22; western gnatcatcher, 4; ruby-crowned kinglet, 87; Am. pipit, 97; cedar waxwing, 631; phainopepla, 2 (wintering, seen in canyon area); loggerhead shrike, 32; Hutton's vireo, 2; dusky warbler, 2; myrtle warbler, 1 (heard calling - H.C.); Audubon's warbler, 1399; Townsend's warbler, 1; yellowthroat, 12; English sparrow, 393; western meadowlark, 252; red-wing, 145; Brewer's blackbird, 1952; dwarf cowbird, 20; Calif. purple finch, 108; house finch, 1308; willow goldfinch, 31; green-backed goldfinch, 70; spotted towhee, 38; brown towhee, 176; savannah sparrow, 42; Belding's sparrow, 23; large-billed sparrow, 6;

lark sparrow, 15; rufous-crowned sparrow, 5; Oregon junco, 243; chipping sparrow, 23; Gambel's sparrow, 761; golden-crowned sparrow, 75; fox sparrow, 8; song sparrow, 87. Total, 136 species and subspecies; about 22,553 individuals. (Seen in area Dec. 23: golden plover, 1; black brant, 12 [O.M.S.]; Brandt's cormorant, 1; duck hawk, 1; crow, 1; Dec. 31: black-chinned hummingbird, 1, city outskirts, closely observed [H.C. and Chas. Ayres, Jr.].)-Wyatt A. and Christine Kent, Mr. and Mrs. Geo. T. Hastings, Mrs. May Warrick, Mr. and Mrs. Louis Anderson, Marguerite Driver, William Bonynge, Mrs. Eva Brothers, Jean Brothers, Mrs. H. W. Splitter, Howard L. Cogswell, Mrs. O. M. Stultz, Laura Greely, Mrs. Caroline H. Daugherty, Mrs. Bess M. Hoffman, Ruby Curry, Mrs. Alma Mason, Mrs. W. L. Shelford, Dorothy Getz, C. R. Thomas, Dorothy Groner, Mrs. Clara Weedmark, Paul Colburn, Bill Dawson (Southwest Bird Study Club, Santa Monica Nature Club, Pasadena Audubon Society, Los Angeles Audubon Society).

281. Marysville, Calif. (center of town including public parks, 1 mile; woods and river bottoms northwest of Marysville, 2 miles; unimproved portion of Ellis Lake in outlying district within city limits, 1 mile; north along irrigated farmlands, 10 miles; east in wooded foothill section, 10 miles; south in tules and rice fields, 5 miles: open farmland 40%, wooded foothills 20%, town suburbs 10%, deciduous town woodlots 15%, cattail marsh 15%).-Dec. 30; 10 a.m. to 5 p.m. Heavy fog in a.m.; visibility poor; temp. 50°; clear in p.m.; visi-bility good; wind SE, 1-7 m.p.h. Nine observers in 3 parties. Total hours, 114 (12 on foot, 102 by car). Eared grebe, 1; pied-billed grebe, 3; Brandt's cormorant, 1 [no details; doublecrested?-Ed.]; great blue heron, 7; Am. egret, 9; green heron, 1; black-crowned night heron, 10; Canada goose, 156; lesser Canada goose 143; white-fronted goose, 1; mallard, 50; pintail, 2; turkey vulture, 2; red-tailed hawk, 6; golden eagle, 1; marsh hawk, 4; pigeon hawk, 1; sparrow hawk, 25; Calif. quail, 49; ringnecked pheasant, 28; Florida gallinule, 4; coot, 385; killdeer, 115; Wilson's snipe, 1; spotted sandpiper, 1; Calif. gull, 5; mourning dove, 6; barn owl, 1; burrowing owl, 1; belted kingfisher, 6; red-shafted flicker, 70; Calif. woodpecker, 72; downy woodpecker, 5; Nuttall's woodpecker, 3; black phoebe, 10; horned lark, 100; Calif. jay, 28; yellow-billed magpie, 64; crow, 33; plain titmouse, 8; creeper, 1; winter wren, 1; Bewick's wren, 10; mockingbird, 4; robin, 147; hermit thrush, 1; western bluebird, 112; mountain bluebird, 10; Townsend's solitaire, 1; Am. pipit, 41; cedar waxwing, 50; phainopepla, 1; loggerhead shrike, 15; Hutton's vireo, 7; myrtle warbler, 47; Audubon's warbler, 64; English sparrow, 239; western meadowlark, 438; redwing, 631; Brewer's blackbird, 3911; common goldfinch, 187; spotted towhee, 5; brown towhee, 7; savannah sparrow, 63; lark sparrow, 3; slate-colored junco, 13; Oregon junco, 190; white-crowned sparrow, 404; golden-crowned sparrow, 103; song sparrow, 7. **Total**, 70 species and subspecies; 8131 individuals.—J. R. Beeson, J. C. Ries, Charles Ries, Sara Jane Ries, Evely, Lamberskin, Mrs. Bessie Lamberskin, Mrs. Gertrude Cable, Tunia Vandenbout, Marguerite Wurtsbaugh.

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282. Monterey Peninsula Region, Calif. (Laguna del Rey, Hotel Del Monte groungs, Monterey Harbor, Pacific Grove waterfront and golf course; Carmel River-mouth lagoon north along waterfront to Pebble Beach, thence northeast up section of pine-filled canyon at northern city limit of Carmel; area in vicinity of intersection of State Highway No. 1 and Carmel Valley road; areas along the latter road 3.3 and 7 miles east of intersection; Point Lobos. All counts made within 9-mile diameter and only along routes or in particular areas indicated; none made during auto transportation between places. Bay exposed to Pacific Ocean 12%, beach 5%, river-mouth lagoon 3%, ponds and tule swamp 19%, rocky shore 4%, open fields 7%, brushland 6%, Monterey pine association 13%, live oaks 3%, golf courses 11%, gardens and village streets 7%). - Dec. 30. Clear; temp. 54° to 65°; wind NE shifting to NW, 5-20 m.p.h.; ground bare. Seven observers in 2 parties in a.m., combined in p.m. Total hours, 13 (111/2 on foot, 11/2 in cars); total miles, 113/4 (9 on foot, 23/4 in cars). Common loon, 1; Pacific loon, 1; red-throated loon, 2; Holboell's grebe, 1; horned grebe, 6; eared grebe, 5; western grebe, 38; pied-billed grebe, 11; brown pelican, 61; double-crested cormorant, 6; Brandt's cormorant, 330; pelagic cormorant, 30; great blue heron, 2; black-crowned night heron, 1; emperor goose, 1 (also observed for 2 days before count; gray "scaled" goose with white head and hind neck, black throat, and orangeyellow legs-noted by all observers except H.B.); mallard, 69; pintail, 140; green-winged teal, 5; cinnamon teal, 2; shoveller, 230; canvasback, 100; lesser scaup, 80; Am. golden-eye, 5; surf scoter, 54; ruddy duck, 88; red-breasted merganser, 11; red-tailed hawk, 1; red-bellied hawk, 1; duck hawk, 1; sparrow hawk, 4; Calif. quail, 7; Virginia rail, 6; sora, 1; Am. coot, 262; black oyster-catcher, 2; snowy plover, 25; killdeer, 37; surf-bird, 1; black turnstone, 24; Wilson's snipe, 7; spotted sandpiper, 1; least sandpiper, 14; dowitcher, 3; sanderling, 40; glaucous-winged gull, 138; western gull, 99; herring gull, 17; Calif. gull, 34; short-billed gull, 76; Heermann's gull, 45; band-tailed pigeon, 606; rock dove, 15 (living on rocky ledges of an islet); barn owl, 1; horned owl, 1; Anna's hummingbird, 3; belted kingfisher, 2; redshafted flicker, 3; Calif. woodpecker, 4; hairy woodpecker, 2; downy woodpecker, 1; Nuttall's woodpecker, 1; black phoebe, 13; Say's phoebe 8; horned lark, 15; Calif. jay, 7; yellow-billed

magpie, 4; crow, 5; chestnut-backed chickadee, rrow, 3: 14; bush-tit, 11; pygmy nuthatch, 9; wren-tit, 8; 0, 190; house wren, 1; winter wren, 2; Bewick's wren, crowned 3; long-billed marsh wren, 4; Calif. thrasher, species 1: robin, 119; varied thrush, 2; hermit thrush, 9; western bluebird, 8; blue-gray gnatcatcher, Evely 1: ruby-crowned kinglet, 6; Am. pipit, 30; loggerhead shrike, 1; Hutton's vireo, 2; orangerguerite crowned warbler, 1; myrtle warbler, 2; Audubon's warbler, 23; Townsend's warbler, 7; vellow-throat, 1; English sparrow, 2; western meadowlark, 62; red-wing, 100; Brewer's blackbird, 130; purple finch, 6; house finch, 237; spotted towhee (maculatus), 4; brown towhee, 1; savannah sparrow, 17; Oregon junco, 15; white-crowned sparrow, 50; golden-crowned sparrow, 16; fox sparrow, 2; Lincoln's sparrow, 2: song sparrow, 28. Total, 105 species; 3754 individuals. (Note: names used refer to species as a whole and do not imply any particular racial form.) - Harriet Baker, Glenn Clairmonte, Wilma Cook, W. J. Kennedy, W. B. Lewis, Florence Morrow, Laidlaw Williams (Monterey Peninsula Audubon Society).

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283. Napa, Calif. (Tulocay Cemetery, full length of Henry Lane, Bush Creek from waterworks to Little Trancas, along road to Big Trancas, and up Napa River 3/4-mile; upland pasture 50%, wooded creek bed 30%, lightly wooded upland 20%).—Dec. 30. Clear; temp. 55° to 66°; no wind. Five observers in 2 parties Total miles, 10; total hours, 8. Turkey vulture, 6; white-tailed kite, 1; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 4; marsh hawk, 1; sparrow hawk, 8; Calif. quail, 81; killdeer, 1; mourning dove, 1; Anna's hummingbird, 7; kingfisher, 2; red-shafted flicker, 47; Calif. woodpecker, 37; red-breasted sapsucker, 1; downy woodpecker, 4; Nuttall's woodpecker, 1; black phoebe, 4; Say's phoebe, 2; Steller's jay, 1; Calif. jay, 26; crow, 36; plain titmouse, 18; bush-tit, 68; white-breasted nuthatch, 10; pygmy nuthatch, 1; wren-tit, 3; Bewick's wren, 1; robin, 202; varied thrush, 34; hermit thrush, 6; western bluebird, 35; ruby-crowned kinglet. 22; loggerhead shrike, 2; myrtle warbler, 1; Audubon's warbler, 17; Townsend's warbler, 3; English sparrow, 6; western meadowlark, 286; Brewer's blackbird, 93; purple finch, 2; house finch, 13; willow goldfinch, 10; green-backed goldfinch, 47; spotted towhee, 29; brown towhee, 52; savannah sparrow, 127; slate-colored junco, 1; Oregon junco, 51; white-crowned sparrow, 70; golden-crowned sparrow, 61; song sparrow, 9. Total, 52 species; 1554 individuals. -Alice Ackley, Esther Sym Henrie, Lee Mc-Cann, Lloyd Gimple, Wayne D. Henrie.

284. Sacramento National Wildlife Refuge, Willows, Calif. (same area as in 1940 and subsequent counts; marsh and water areas, rice fields, willow thickets, and open fields).-Dec. 29; 8 a.m. to 4 p.m. Foggy and calm in early a.m.; clear, with light N wind rest of day;

temp. 53° at start, 60° at return. Total hours afield, 7; total miles, about 51 (48 by car, 3 on foot). Pied-billed grebe, 5; white pelican, 78; double-crested cormorant, 6; great blue heron, 23; Am. egret, 11; snowy egret, 12; black-crowned night heron, 311; Am. bittern, 2; whistling swan, 628; Canada goose, 72; lesser Canada goose, 892; cackling goose, 4210 (est.); white-fronted goose, 6271 (est.); lesser snow goose, 6113 (est.); Ross's goose, 11; mallard, 4123 (est.); gadwall, 5; baldpate, 52,312 (est.); pintail, 771,400 (est.); green-winged teal, 5338 (est.); cinnamon teal, 20; shoveller, 2770 (est.); canvas-back, 2; ruddy duck, 45; Am. merganser, 17; turkey vulture, 1; red-tailed hawk, 8; marsh hawk, 8; prairie falcon, 1; duck hawk, 1; sparrow hawk, 2; Calif. quail, 20; ring-necked pheasant, 288; Am. coot, 410; killdeer, 2; long-billed dowitcher, 2; avocet, 2; Calif. gull, 6; mourning dove, 14; barn owl, 1; burrowing owl, 1; redshafted flicker, 19; Nuttall's woodpecker, 2; loggerhead shrike, 6; Audubon's warbler, 3; English sparrow, 3; meadowlark, 55; red-wing, 8362 (est.); Brewer's blackbird, 9; tricolored red-wing, 3170 (est.); green-backed goldfinch, 101; spotted towhee, 1; Oregon junco, 35; Gambel's sparrow, 334; song sparrow, 4. Total, 55 species and subspecies; about 867,548 individuals.-Peter J. Van Huizen.

285. Salinas (Monterey Co.), Calif. (same area as in 1944: Central Park in Salinas to El Toro Creek and 10 miles northwest to Moss Landing; city park 10%, area of creek 40%, scrub oak 15%, slough 25%, salt marsh 10%). —Dec. 30; 7:30 a.m. to 4 p.m. Clear; temp. 65° to 69°: no wind. Two observers together. Total hours, 8; total miles, 16 (6 on foot, about 10 by car between observation points). Common loon, 1; red-throated loon, 2; eared grebe, 72; western grebe, 57; brown pelican, 3; white pelican, 2; Baird's cormorant, 1; Am. egret, 3; snowy egret, 3; mallard, 4; cinnamon teal, 1; shoveller, 6; redhead, 2; canvas-back, 21; greater scaup, 10; lesser scaup, 9; white-winged scoter, 28; surf scoter, 84; ruddy duck, 95; red-breasted merganser, 8; white-tailed kite, 1; goshawk, 1; red-tailed hawk, 2; marsh hawk, 1; pigeon hawk, 1; sparrow hawk, 12; coot, 276; killdeer, 143; long-billed curlew, 1; willet, 56; unidentified sandpipers, 15; sanderling, 34; avocet, 24; black-necked stilt, 2; glaucous-winged gull, 1; western gull, 11; Calif. gull, 71; mourning dove, 1; belted kingfisher, 9; red-shafted flicker, 7; Calif. woodpecker, 8; downy woodpecker, 1; black phoebe, 16; Say's phoebe, 3; Calif. jay, 8; yellow-billed magpie, 8; crow, 16; plain titmouse, 1; bush-tit, 27; wren-tit, 2; house wren, 1; Bewick's wren, 1; robin, 209; hermit thrush, 2; western bluebird, 6; mountain bluebird, 6; western gnatcatcher, 2 (together, not previously seen in winter by observers); Am. pipit, 13; ruby-crowned kinglet, 5; cedar waxwing, 4; loggerhead shrike, 9; myrtle warbler, 69; Audubon's warbler, 467; Townsend's warbler, 2; English sparrow, 388; western meadowlark, 108; red-wing, 148; Brewer's blackbird, 793; cowbird, 32; Calif. purple finch, 175; house finch, 125; common goldfinch, 40; green-backed goldfinch, 17; spotted towhee, 2; brown towhee, 9; savannah sparrow, 2; lark sparrow, 114; junco, 28; Nuttall's sparrow, 396; fox sparrow, 12; song sparrow, 5. Total, 81 species and subspecies; 4361 individuals. — Mr. and Mrs. Charles Anderson.

286. San Diego, Calif. (San Diego to Sweetwater Reservoir).-Dec. 20; 7 a.m. to 5 p.m. Clear; no wind; average temp. 62° F. Five observers in 2 parties. Total hours afield, 20; total party miles, 80 (10 on foot, 70 by car). Horned grebe, 2; eared grebe, 4; pied-billed grebe, 4; brown pelican, 33; Farallon cormorant, 237; great blue heron, 14; Am. egret, 91; snowy egret, 83; black-crowned night heron, 12; Am. bittern, 3; black brant, 370; gadwall, 2; baldpate, 95; pintail, 28; green-winged teal, 1; cinnamon teal, 4; shoveller, 43; canvas-back, 2; lesser scaup, 2029; buffle-head, 10; surf scoter, 1012; ruddy duck, 51; Am. merganser, 2; redbreasted merganser, 2; sharp-shinned hawk, 1; red-tailed hawk, 5; red-bellied hawk, 1; marsh hawk, 6; prairie falcon, 1; sparrow hawk, 22; valley quail, 50; Calif. clapper rail, 63; Virginia rail, 1; sora, 5; black rail, 1; coot, 490; snowy plover, 2; semipalmated plover, 4; killdeer, 27; golden plover, 1 (L.M.H.); black-bellied plover, 27; black turnstone, 2; Wilson's snipe, 1; longbilled curlew, 7; Hudsonian curlew, 1; spotted sandpiper, 2; willet, 262; greater yellow-legs, 6; least sandpiper, 166; dowitcher, 34; western sandpiper, 50; marbled godwit, 350; sanderling, 83; avocet, 6; glaucous-winged gull, 7; western gull, 89; herring gull, 10; Calif. gull, 66; ringbilled gull, 477; Bonaparte's gull, 20; Heermann's gull, 5; royal tern, 17; mourning dove, 12; road-runner, 2; barn owl, 1; burrowing owl, 1; white-throated swift, 30; Anna's hummingbird, 6; belted kingfisher, 3; red-shafted flicker, 6; Nuttall's woodpecker, 2; Cassin's kingbird, 16; black phoebe, 28; Say's phoebe, 7; horned lark, 1; Calif. jay, 8; raven, 2; crow, 50; plain titmouse, 1; bush-tit, 70; wren-tit, 14; house wren, 2 Bewick's wren, 1; tule wren, 7; cañon wren, 1; rock wren, 2; mockingbird, 18; Calif. thrasher, 3; robin, 2; hermit thrush, 16; western bluebird, 22; mountain bluebird, 6; western gnatcatcher, 10; black-tailed gnatcatcher, 1; ruby-crowned kinglet, 6; Am. pipit, 100; phainopepla, 2; Calif. shrike, 20; Audubon's warbler, 1510; tule yellow-throat, 10; pileolated warbler, 1; English sparrow, 19; western meadowlark, 52; red-wing, 370; tricolored red-wing, 30; Brewer's blackbird, 406; dwarf cowbird, 20; purple finch, 12; house finch, 229; green-backed goldfinch, 37; spotted towhee, 8; brown tow-hee, 25; savannah sparrow, 17; Belding's sparrow, 11; large-billed sparrow, 18; lark sparrow,

2; rufous-crowned sparrow, 3; Gambel's sparrow, 90; Lincoln's sparrow, 8; song sparrow, 22 Total, 120 species and subspecies; about 9881 individuals.—L. M. Huey, K. W. Kenyon, W. H. Drury, J. R. Sams, David Fork.

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287. San Francisco, Calif. (Marina, Yacht Harbor, and Palace of Fine Arts Lagoon Laurel Hill Cemetery, Lincoln Park, Lands End, Sutro Heights, Seal Rocks, Ocean Beach Golden Gate Park, Lake Merced and Fleishhacker Zoo, Hunters Point, Bay Shore and Mc-Laren parks; ocean beach 9%, bay shore, with salt marsh and mud flats 5%, parks 62%, freshwater ponds and marsh 10%, open fields 7%, chaparral 7%).-Dec. 23. Clear to partly overcast at times; temp. 45° to 60°; wind WNW 4-12 m.p.h., cool. Twenty-two observers in 8 parties. Total party hours, 68 (65 on foot, 3 by car); total party miles, 591/2 (50 on foot 91/2 by car). Pacific loon, 2; horned grebe, 1: eared grebe, 76; western grebe, 126; pied-billed grebe, 26; brown pelican, 26; double-crested cormorant, 85; Brandt's cormorant, 4; great blue heron, 1; Am. egret, 3; Anthony's green heron, 1; cackling goose, 1; mallard, 294; gadwall, 21; baldpate, 128; pintail, 3; shoveller, 14 wood duck, 3; redhead, 6; ring-necked duck 130; canvas-back, 41; greater scaup, 2; lesser scaup, 34; Am. golden-eye, 1; buffle-head, 1 white-winged scoter, 3; ruddy duck, 132; sharpshinned hawk, 4; Cooper's hawk, 4; red-tailed hawk, 5; sparrow hawk, 19; Calif. quail, 137; Florida gallinule, 2; coot, 505 (est.); snowy plover, 25; killdeer, 1; surf-bird, 5; black turnstone, 22; willet, 120; spotted sandpiper, 7 sanderling, 70; glaucous-winged gull, 463 (est.) western gull, 854 (est.); herring gull, 16; Calif gull, 1481 (est.); ring-billed gull, 488 (est.); short-billed gull, 50; Bonaparte's gull, 125; Anna's hummingbird, 85; belted kingfisher, 3 red-shafted flicker, 75; black phoebe, 35; Calii jay, 7; Am. raven, 3; crow, 3; chestnut-backed chickadee, 86; bush-tit, 20; red-breasted nuthatch, 6; creeper, 2; wren-tit, 1; winter wren, 3; Bewick's wren, 2; marsh wren, 1; mocking bird, 1; robin, 308; varied thrush, 17; hermit thrush, 33; golden-crowned kinglet, 7; rubycrowned kinglet, 69; loggerhead shrike, 23 myrtle warbler, 203; Audubon's warbler, 262; Townsend's warbler, 35; yellow-throat, 8; Eng lish sparrow, 309; western meadowlark, 27; red-wing, 1; Brewer's blackbird, 487; Calif. purple finch, 2; house finch, 209; pine siskin, 41; goldfinch, 1; green-backed goldfinch, 5; spotted towhee, 40; Oregon junco, 118; whitecrowned sparrow, 656; golden-crowned sparrow, 37; fox sparrow, 19; song sparrow, 63. Total, 89 species and subspecies; approximately 8881 individuals.-Mrs. Enid Austin, S. Bozant, Vee Curtis, Junea Kelly, E. C. Stowell, Joan Kirk, Ruth Elwonger, P. Baukol, Donald Brock Chas. A. Bryant, B. C. Cain, Loren Cochron H. Dubois, Jack Heyneman, Albert Kwasky

Herman V. Leffler, Arthur H. Myer, Mrs. Hazel B. Leffler, Lynn Chapman, Tom Hutchinson, Cliff Thompson, Lt. W. L. Whittemore (Audubon Association of the Pacific).

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288. San Jose (Santa Clara Co.), Calif. (vicinity of Alviso, 8 miles north of San Jose, and Alum Rock Park, 6 miles east; salt-water marshes and sloughs 33%, pear orchards near marshes 12%, pastureland near marshes 5%, Alum Rock Canyon with permanent creek and steep slopes wooded on one side and grassy with some sagebrush on the other 42%, San Jose suburbs near canyon 8%).-Dec. 30; 9 a.m. to 3:30 p.m. Clear; wind NW, less than 1-12 m.p.h.; temp. 49° to 65° F. Twenty-three observers in 2 parties. Total hours, 11 (on foot); total miles, 8 (presence of duck hunters in Alviso marshes limited mileage covered, but use of 40x scope overcame this handicap to some extent). Eared grebe, 23; white pelican, 162 (1 flock); great blue heron, 2; Am. egret, 4: black-crowned night heron, 1: Am. pintail, 2; ruddy duck, 6; white-tailed kite, 4 (2 ad. and 2 imm., together); sharp-shinned hawk, 1; red-tailed hawk, 7; golden eagle, 2; marsh hawk, 3; sparrow hawk, 5; Calif. quail, 4; clapper rail, 2; Am. coot, 516; killdeer, 26; black-bellied plover, 221; long-billed curlew, 132 (2 flocks); Hudsonian curlew, 1; willet, 36; greater yellow-legs, 8; least sandpiper, 192; redbacked sandpiper, 113; dowitcher, 283; western sandpiper, 16 (very large flocks of sandpipers flushed by hunters could not be identified); marbled godwit, 4; avocet, 250± (1 flock); ring-billed gull, 5; burrowing owl, 3; Anna's hummingbird, 3; belted kingfisher, 1; red-shafted flicker, 17; Calif. woodpecker, 5; Nuttall's woodpecker, 2; black phoebe, 3; Steller's jay, 5; Calif. jay, 12; crow, 2; chestnut-backed chickadee, 10; plain titmouse, 2; bush-tit, 72; white-breasted nuthatch, 4; wren-tit, 6; dipper, 1; Bewick's wren, 2; mockingbird, 3; Calif. thrasher, 4; robin, 95; varied thrush, 3; hermit thrush, 7; western bluebird, 28; ruby-crowned kinglet, 6; Am. pipit, 39; cedar waxwing, 38; loggerhead shrike, 3; Hutton's vireo, 2; Audubon's warbler, 82; Townsend's warbler, 2; yellow-throat, 1; English sparrow, 25; western meadowlark, 85; red-wing, 2; Brewer's blackbird, 86; house finch, 60; willow goldfinch, 6; green-backed goldfinch, 204; spotted towhee, 9; brown towhee, 10; savannah sparrow, 38; rufous-crowned sparrow, 2; Oregon junco, 6; white-crowned sparrow, 304; golden-crowned sparrow, 62; fox sparrow, 1; song sparrow, 28. Total, 76 species; about 3422 individuals (almost no ducks because of presence of duck hunters; those seen in flight could not be positively identified).-Grace Brubaker, Kent Carnie, Curt Dietz, Florence Durfee, Dorothy Ernst, Geo. Foreman, Henri Hill, Janet Koppel, Bill Kurtz, Ernest Meyers, Anne Peterson, J. G. Peterson, Neil Phillips, Elizabeth Price, Hubert Price,

Dr. and Mrs. Ralph J. Smith, Emily Smith, Serena Thompson, M. F. Vessel, Agnes Wesemann, Al Wool, Linda Woods (Santa Clara Valley Audubon Society).

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